VHS videorecorder

Chassis code T6000

image / sound
programming
special features
connectors / general remarks

Standards : PAL / MESECAM
Norms : BG
NTSC playback to PAL TV
Interactive menu control
Chroma Pro system

Mono sound
ShowView

image / sound

Chroma Pro system
2 video heads
Mono sound
Automatic level control

programming

ShowView
VPS / PDC
Auto programming of TV channels
Auto clock setting
99 programmes positions
Mon-fri / weekly repeat
8 timers events from 1 year
Automatic tape recognition
Auto remaining time indication

special features

High speed mecanism
Variable search (9 speeds)
Real time / time remaining counter
Multi TV RC6X03NX remote control

connectors / general remarks

2 scarts
Modulator all channels (UHF)
Power supply : 220 - 240 V; 50/60 Hz
Consumption : 17 W/h - in stand-by mode 4,8 W/h
Weight : 4 kg
Dimensions (W x H x D) : 393 x 90 x 307,5 mm

THOMSON MULTI MEDIA

Brandt FERGUSON SABA TELEFUNKEN THOMSON

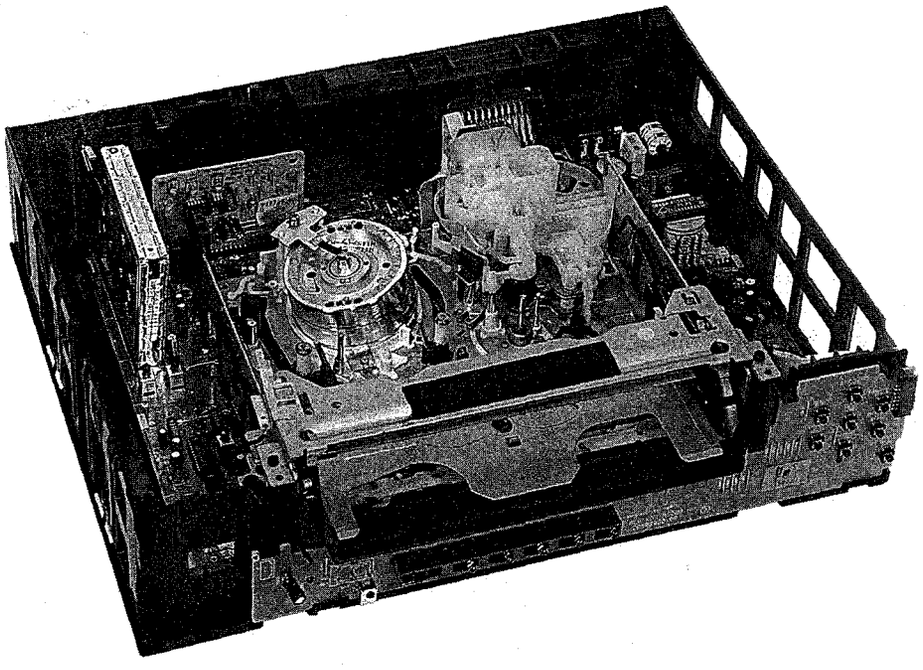
VIDEO

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

R/T 6000

Additive to SM
Additif au SM
Ergänzung zum SM
Aggioznamento del SM
Suplemento al SM

350 411 70



WARNING : *Before servicing this chassis read the safety recommendations.*
ATTENTION : *Avant toute intervention sur ce châssis, lire les recommandations de sécurité.*
ACHTUNG : *Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.*
ATTENZIONE : *Prima di intervenire sullo chassis, leggere le norme di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*

Code : 350 669 80 - 0898 / 14M - R/T6000 Print. MALGOGNE/SAILLOUR - AVRILLÉ

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Do not disconnect modules when they are energized!
Repairs on power supply section are to be carried out only with isolating transformer.

Ne pas retirer les modules lorsqu' ils sont sous tension. N'effectuer les travaux de maintenance sur la partie reliée au secteur (Switch Mode) qu'au travers d'un transformateur d'isolement.

Module nicht bei eingeschaltetem Gerät entfernen!
Servicearbeiten am Netzteil nur unter Verwendung eines Regeltrenntrafos durchführen.

Non scollegare le piastre quando sono alimentate!
Per le riparazioni sulla sezione alimentatore, utilizzare un trasformatore isolatore.

No desconectar los módulos cuando están activados. Las reparaciones en la sección de alimentación de energía deben ser ejecutadas solamente con un transformador de separación.

⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) nicht durch Original - Ersatzteile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione dei componenti di sicurezza (evidenziati con il segno ⚠) con componenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio. In tal caso è "esclusa la responsabilità " del costruttore.

La sustitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN CONDIZIONI DI MISURA - CONDICIONES DE MEDIDAS

RECEIVER :
On UHF,input level : 1 mV, bar test pattern :
- PAL, I standard, 100% white.

Via the scart socket, input level : 1 Vpp, bar test pattern :

Colour, contrast and brightness at mid-position, sound at minimum.
Programme selected : PR 01.

DC voltages measured between the point and earth using a digital voltmeter.

RECEPTEUR :
En UHF, niveau d'entrée 1 mV mire de barres
- SECAM, Norm L, Blanc 100%.

Par la prise Péritélévision, niveau d'entrée 1 Vcc, mire de barres .

Couleur, contraste, lumière à mi-course, son minimum.
Programme affecté PR 01.

Tensions continues relevées par rapport à la masse avec un voltmètre numérique.

EMPFÄNGER :
Bei UHF Eingangspegel 1 mV, Farbbalken :
- PAL, Norm G, Weiss 100%.

Über die Scartbuchse : Eingangspegel 1 Vss, Farbbalken :

Farbe, Kontrast, Helligkeit in der Mitte des Bereichs, Ton auf Minimum.
Zugeordnetes Programm PR 01.

Gleichspannungen mit einem digitalen Voltmeter zur Masse gemessen.

RICEVITORE :
In UHF, livello d'entrata 1 mV, monoscopio con barre :
- PAL, norma G. bianco 100%.

Via SCART, livello d'entrata 1 Vpp, monoscopio con barre :

Colore, Contrasto, Luminositá a meta corsa, Suono minimo.
Programma designato PR 01.

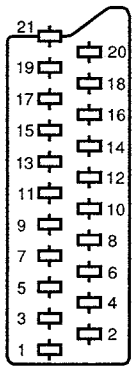
Tensioni continue rilevate rispetto alla massa con un voltametro digitale.

RECEPTOR :
En UHF, nivel de entrada 1 mV, mira de barras :
- PAL, norma G, blanco 100%.

Por la toma Peritelevision, nivel de entrada 1 Vpp mira de barra.

Color, Contraste, luz a mitad de carrera, Sonido minimo.
Programa afectado PR 01.

Tensiones continuas marcadas en relacion a la masa con un voltimetro digital.



NOTE : (MAIN) ... etc. identifies each pcb module.

NOTE : (MAIN) ... etc. repères des platines constituant l'appareil.

HINWEIS : (MAIN) ... usw. Kennzeichnung der Platinen, aus denen das Gerät zusammengesetzt ist.

NOTA : (MAIN) ... ecc. indicazioni delle piastre che costituiscono l'apparecchio.

NOTA : (MAIN) ... etc. marcas de las placas que constituyen el aparato.

		ENGLISH	FRANÇAIS	DEUTSCH	ITALIANO	ESPAÑOL
1	⊖→	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
2	→⊕	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
3	⊖→	AUDIO "L"	AUDIO "G"	AUDIO "L"	AUDIO "S"	AUDIO "I"
4	⊥	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
5	⊥	"BLUE"	"BLEU"	"BLAU"	"BLU"	"AZUL"
6	→⊕	AUDIO "L" MONO	AUDIO "G" MONO	AUDIO "L" MONO	AUDIO "S" MONO	AUDIO "I" MONO
7	→⊕	"BLUE"	"BLEU"	"BLAU"	BLU	AZUL
8	→⊕	SLOW SWITCH	COMMUT. LENTE	AV UMSCHALTUNG	"COMMUTAZIONE LENTA"	"CONMUTACION LENTA"
9	⊥	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
10	NC					
11	→⊕	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
12	NC					
13	⊥	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
14	NC					
15	→⊕	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
16	→⊕	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
17	⊥	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
18	⊥	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
19	⊖→	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
20	→⊕	VIDEO OR "SYNC"	VIDEO SYNCHRO	VIDEO ODER SYNCHRO	VIDEO O SINCRO	VIDEO O SINCRO
21	⊖→	PLUG SCREEN BOX	BLINDAGE PRISE	ABSCHIRMUNG DES STECKERS	INVOLUCRO METAL-LICO DELLA PRESA	BLINDAJE DEL ENCHUFE

→⊕ : INPUT - ENTRÉE - EINGANG - ENTRATA - ENTRADA • ⊖→ : OUTPUT - SORTIE - AUSGANG - USCITA - SALIDA • ⊥ : EARTH - MASSE - MASSE - MASSA - MASA

TECHNICAL DATA AND COMPOSITION OF VIDEO RECORDERS
CARACTERISTIQUES TECHNIQUES ET COMPOSITION DES MAGNETOSCOPES
TECHNISCHE DATEN UND ZUSAMMENSETZUNG VIDEORECORDERS
CARATTERISTICHE TECNICHE E COMPOSIZIONE VIDEOREGISTRATORI
CARACTERISTICAS TECNICAS Y COMPOSICIÓN DE LOS VÍDEOS

Power requirement: Alimentation: Netzeil: Alimentazione: Alimentación:	220 - 240 V ± 10% 50/60Hz	4 Heads Helical Scan system: 4 têtes video: 4 Video-Köpfe: * / ** 4 Testine video 4 Cabezas video:		Consumption Consommation: Leitstungsaufnahme Consumo: Consumo:	17 W 4.8 W STD-BY
Programming: Programmation: Timer: Programmazione: Programación:	**SHOWVIEW**	2 Heads Helical Scan system: 2 têtes video: 2 Video-Köpfe: 2 Testine video 2 Cabezas video:		Sound: Son: Ton: Suono: Sonido:	Mono
Tape speed: Vitesse de défilement: Bandgeschwindigkeit: Velocitá del nastro: Velocidad de la cinta:	SP SP/LP * SP/LP/SLP **	Tape format: VHS Format video: Video-system: Formato video: Formato vídeo:		Power save: Sécurité secteur: Gangreserve: Sicurezza alimentazione: Seguridad red:	30 min.

SP = 23,39 mm/sec. LP = 11,70 mm/sec. SLP = 33,35 mm/sec. (Only NTSC PB)

For service information on the deck mechanism see separate publication "R4000 SERIES MECHANICAL ADJUSTMENTS" and "R4000 DRUM DISASSEMBLY / ASSEMBLY SERVICE MANUAL".

Pour toute intervention ou réglage sur la partie mécanique, se reporter au FASCICULE MECANIQUE R4000 ainsi qu'à son additif: "DEMONTAGE DU TAMBOUR SUR LES MAGNETOSCOPES EQUIPES DU CHASSIS R4000".

Informationen über mechanische Einstellungen entnehmen Sie bitte dem Handbuch "MECHANISCHE EINSTELLUNGEN R4000"

Ulteriori informazioni sulla meccanica si possono essere trovare nelle seguenti pubblicazioni: "SERIE R4000 REGOLAZIONI MECCANICHE" e R4000 MANUALE DI SERVIZIO PER IL DISASSEMBLAGGIO DEL TAMBURO".

Para información de servicio técnico sobre el mecanismo de la platina, consulte la documentación separada "AJUSTES MECANICOS SERIES R4000" y "MANUAL DE SERVICIO ENSAMBLAJE DEL TAMBOR R4000"

SCHEMATIC DIAGRAMS & PCBs

Reference	Setup Number	Interconnections Diagrams	Main PCB	Pow/TU/FI	Main Servo	Main Video	I/O Interface	Secam	KDB/FCB	JSB
THOMSON										
V2700	3A178400B49003	13-14	79-84	43-46	51-58	60-62 65-66	85-87	-	21-24	-
V4700	3A178A00B49083	13-14	79-84	43-46	51-58	60-62 65-66	85-87	-	21-24	-
V4800C	3A178E00B49083	13-14	79-84	43-46	51-58	60-62 65-66	85-87	-	15-18	-
VP2750	02108444B09103	13-14	79-84	67-70 75-78	51-58	59 63-66	85-87	45-50	21-24	-
VP2751	18228840B1B383	13-14	79-84	67-70 75-78	51-58	60-66	85-87	-	19-22	-
VP2757	79218848B8B383	13-14	79-84	67-70 75-78	51-58	60-66	85-87	-	19-22	-
VP2800F	02108404B09103	13-14	79-84	67-70 75-78	51-58	36-38	85-87	45-50	27-30	-
VP2850F	02108444B09123	13-14	79-84	67-70 75-78	51-58	36-38	85-87	45-50	27-30	5
VP2850G	18128044B19103	13-14	79-84	67-70 75-78	51-58	60-66	85-87	-	27-30	-
VP4780	02208E45B0B3A3	13-14	79-84	67-70 75-78	51-58	59 63-66	85-87	45-50	19-22	5
VP4781	18228A41B1B3A3	13-14	79-84	67-70 75-78	51-58	60-66	85-87	-	19-22	5
VP4800F	02108E04B09183	13-14	79-84	67-70 75-78	51-58	36-38	85-87	45-50	27-30	-
VP4850F	02108E44B091A3	13-14	79-84	67-70 75-78	51-58	36-38	85-87	45-50	27-30	5
VTH721	1A1188040411C6	13-14	79-84	39-42	51-58	33-35-~~-31-32		-	21-24	-

SCHEMATIC DIAGRAMS & PCBs

Reference	Setup Number	Interconnections diagrams	Main PCB	Pow/TU/FI	Main Servo	Main Video	I/O Interface	Secam	KDB/FCB	JSB
TELEFUNKEN										
M9820G	**18128804B19183**	13-14	79-84	67-70 75-78	51-58	60-66	85-87	-	7-10	-
M9825G	**18128844B19183**	13-14	79-84	67-70 75-78	51-58	60-66	85-87	-	7-10	-
M9840G	**18128E44B191A3**	13-14	79-84	67-70 75-78	51-58	60-66	85-87	-	7-10	**5**
SABA										
EV100F	**02008404401103**	13-14	79-84	67-70 75-78	51-58	36-38	85-87	45-50	41-44	-
EV100G	**18028004719103**	13-14	79-84	67-70 75-78	51-58	60-66	85-87	-	41-44	-
EV200G	**18128004B19123**	13-14	79-84	67-70 75-78	51-58	60-66	85-87	-	**23-26**	**6**
EV400F	**02108E04801183**	13-14	79-84	67-70 75-78	51-58	36-38	85-87	45-50	**23-26**	-
EV400G	**18028E04411183**	13-14	79-84	67-70 75-78	51-58	60-66	85-87	-	41-44	-
FERGUSON										
FV301LV	**7911880CB89183**	13-14	79-84	67-70 75-78	51-58	60-66	85-87	-	**15-18**	-
BRANDT										
VK130PS	**0100840440100B**	13-14	79-84	67-74	51-58	59 63-66	85-87	45-50	17-20	-
VK241PS	**02008404401103**	13-14	79-84	67-70 75-78	51-58	**36-38**	85-87	45-50	**11-14**	-
VK441PS	**02008E04401183**	13-14	79-84	67-70 75-78	51-58	**36-38**	85-87	45-50	**11-14**	-

(GB) Regarding pages not weaved, please refer to Service Manual (350 411 70).

(F) Pour les pages non tramées, veuillez vous reportez à la documentation de base (350 411 70).

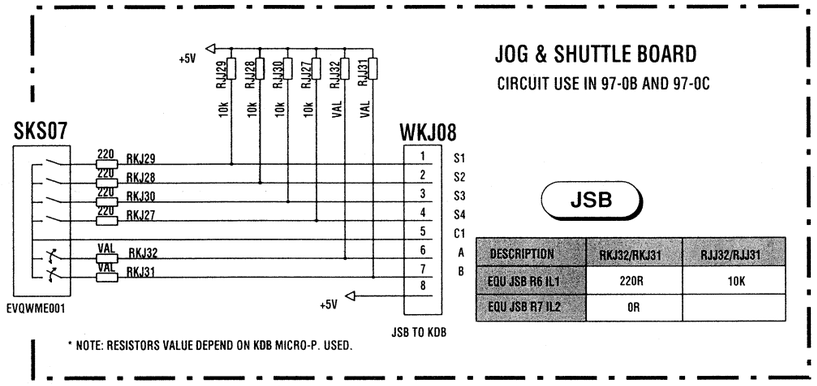
(D) Seitenzahlen, die in der Tabelle nicht grau hinterlegt sind, beziehen sich auf das Service-Manual (350 411 70).

(I) Per gli argomenti non trattati in questo aggiornamento, fare riferimento al manuale di servizio relativo al telaio R6000 (350 411 70).

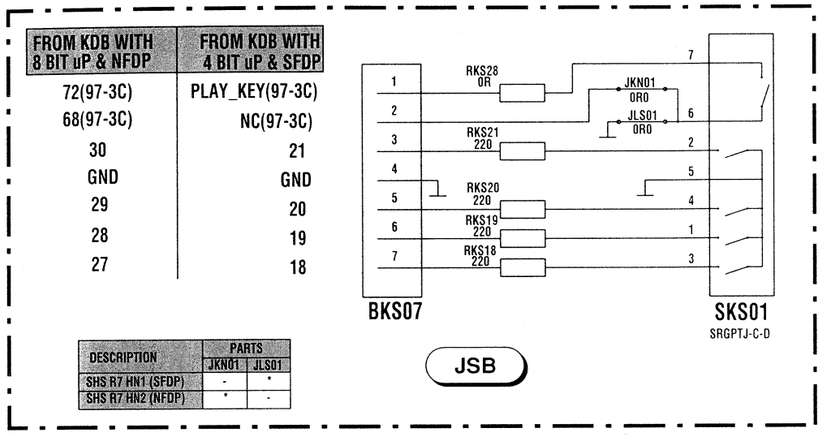
(E) Para las páginas no sombreadas, ver la documentación básica (350 411 70).

JOG & SHUTTLE BOARD - PLATINE JOG & SHUTTLE - LEITERPLATTE JOG & SHUTTLE - PIASTRA JOG & SHUTTLE - PLATINA JOG & SHUTTLE

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

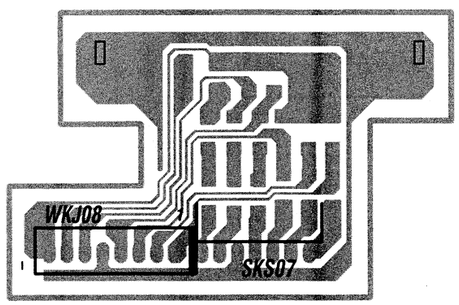


DESCRIPTION	RKJ32/RKJ31	RJJ32/RJJ31
EQU JSB R6 IL1	220R	10K
EQU JSB R7 IL2	0R	

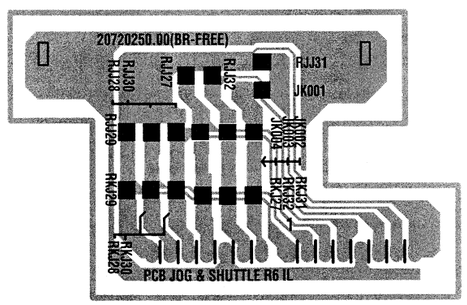


DESCRIPTION	PARTS	
	JKN01	JLS01
SHS R7 HN1 (SFDP)	-	*
SHS R7 HN2 (NFDP)	*	-

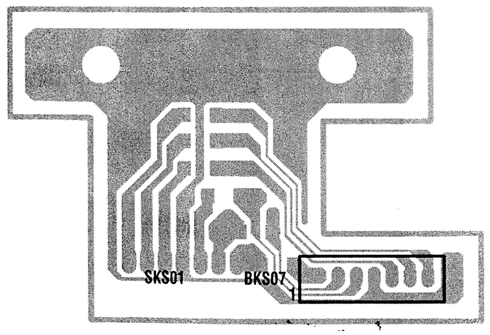
Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes



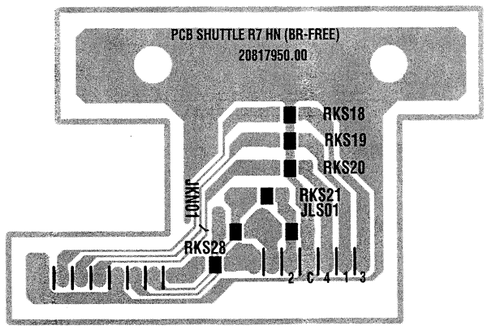
Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre



Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

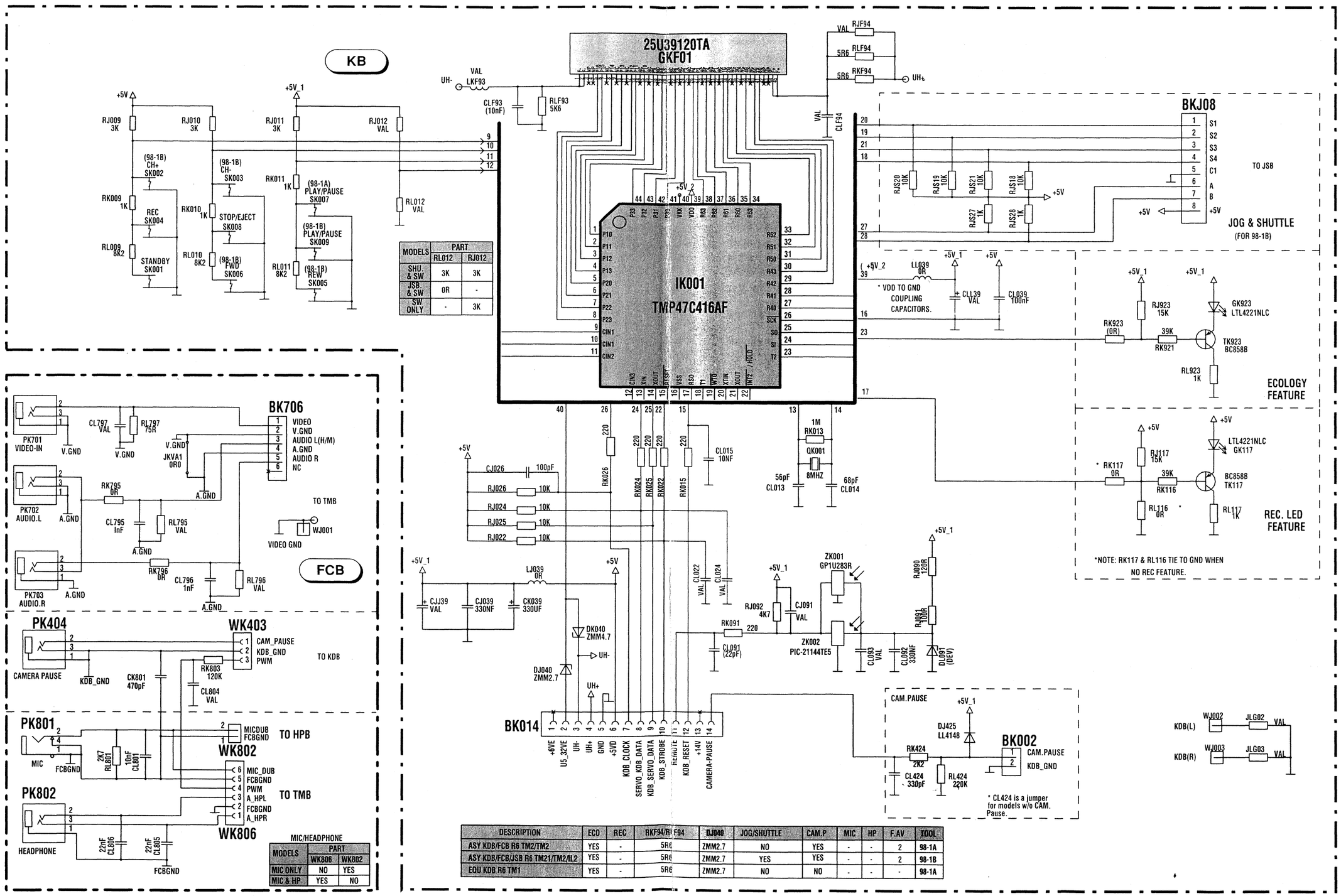


Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre



KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

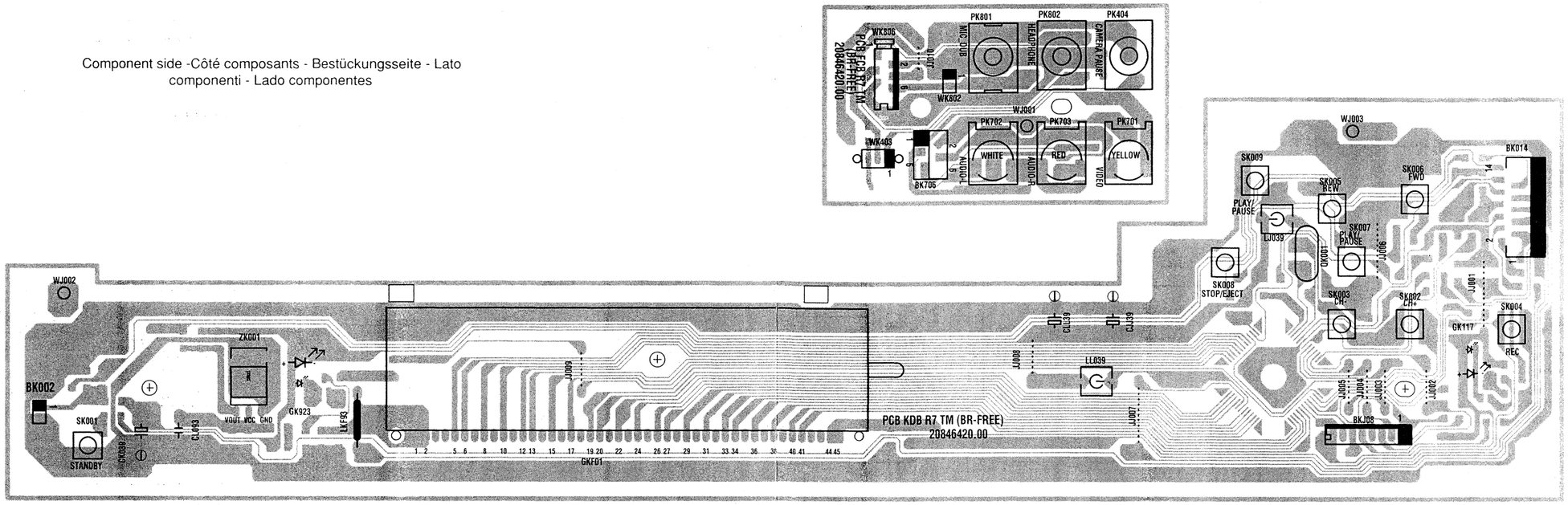


MODELS	PART	
	RL012	RJ012
SHU. & SW	3K	3K
JSB. & SW	0R	-
SW ONLY	-	3K

MODELS	PART	
	WK806	WK802
MIC ONLY	NO	YES
MIC & HP	YES	NO

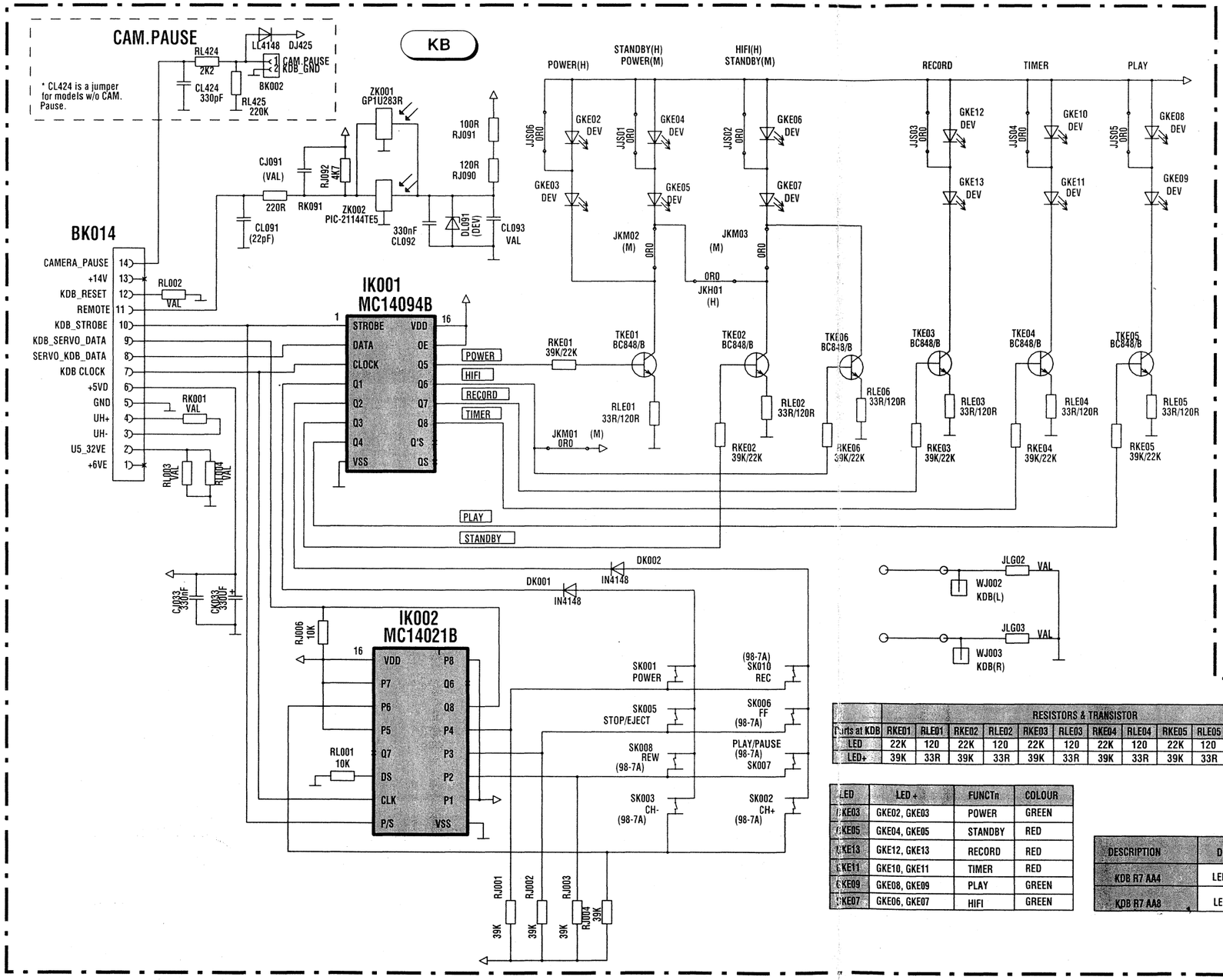
DESCRIPTION	ECO	REC	RKF94/RL F94	DJ040	JOG/SHUTTLE	CAM.P	MIC	HP	F.AV	TOOL
ASY KDB/FCB R6 TM2/TM2	YES	-	5R6	ZMM2.7	NO	YES	-	-	2	98-1A
ASY KDB/FCB/JSB R6 TM21/TM2/IL2	YES	-	5R6	ZMM2.7	YES	YES	-	-	2	98-1B
EQU KDB R6 TM1	YES	-	5R6	ZMM2.7	NO	NO	-	-	-	98-1A

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes



KEYBOARD WITHOUT DISPLAY - PLATINE DE COMMANDES SANS AFFICHEUR - BEDIENTEIL OHNE DISPLAY - TASTIERA SENZA DISPLAY - PLATINA MANDOS SIN VISUALIZADOR

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA



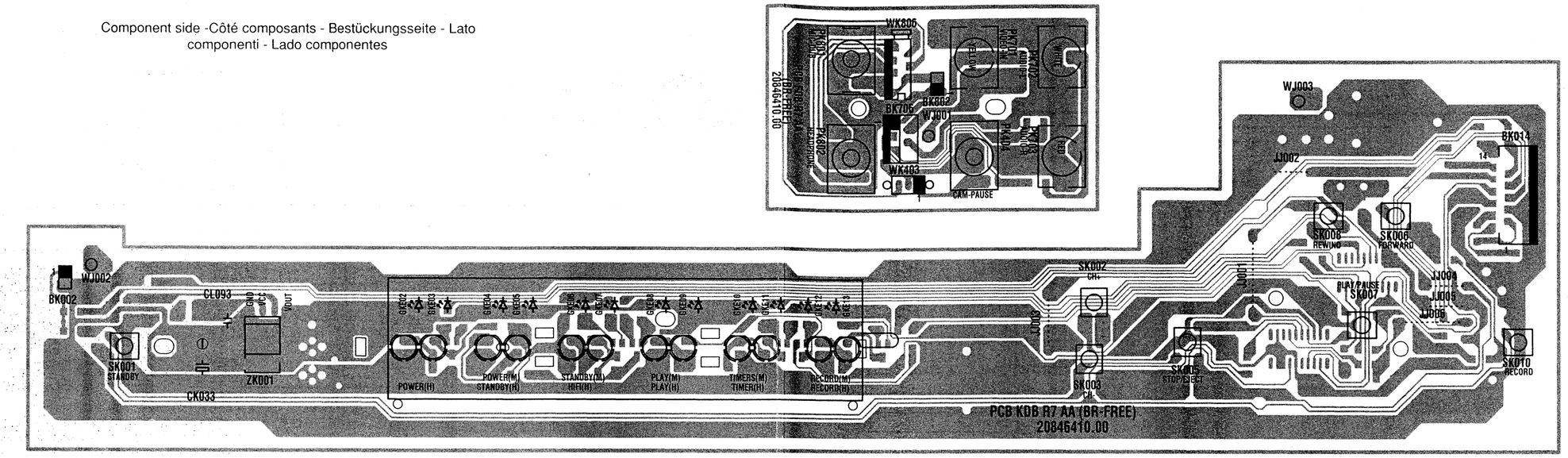
MODELS	PART	
	WK806	BK802
MIC ONLY	NO	YES
MIC & HP	YES	NO

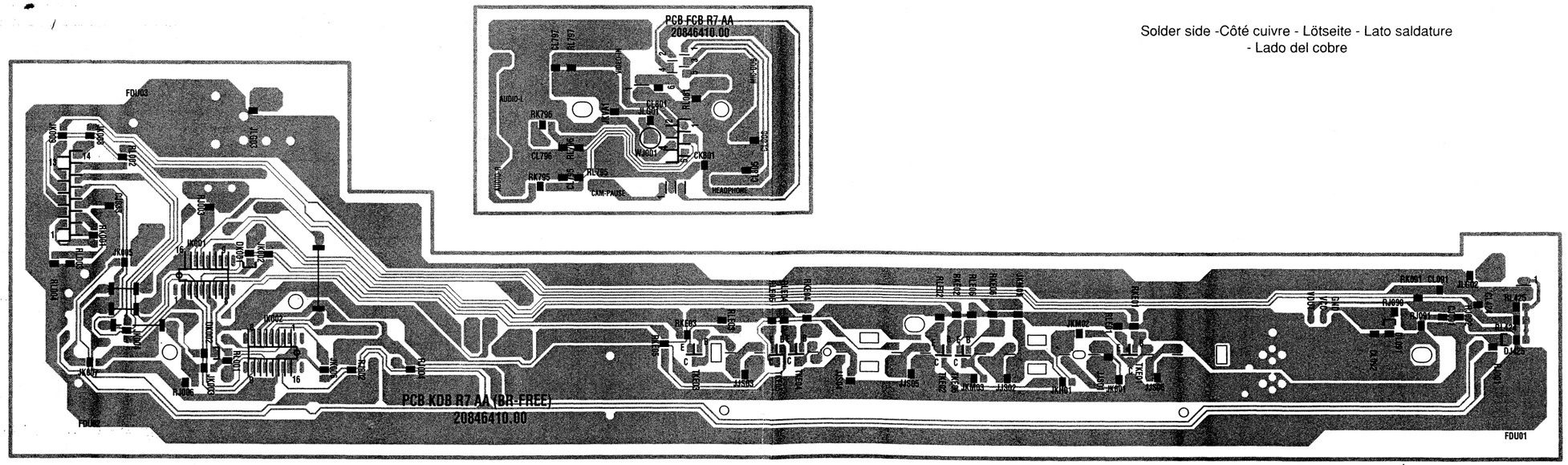
	RESISTORS & TRANSISTOR													OPTIONAL JUMPERS									
Parts at KDB	RKE01	RLE01	RKE02	RLE02	RKE03	RLE03	RKE04	RLE04	RKE05	RLE05	RKE06	RLE06	TKE06	JJS01	JJS02	JJS03	JJS04	JJS05	JJS06	JKM01	JKM02	JKM03	JKH01
LED	22K	120	22K	120	22K	120	22K	120	22K	120	22K	120	+	+	+	+	+	+	+	-	-	-	+
LED+	39K	33R	39K	33R	39K	33R	39K	33R	39K	33R	39K	33R	+	-	-	-	-	-	-	-	-	-	+

LED	LED +	FUNCTn	COLOUR
DKE03	GKE02, GKE03	POWER	GREEN
DKE05	GKE04, GKE05	STANDBY	RED
DKE13	GKE12, GKE13	RECORD	RED
DKE11	GKE10, GKE11	TIMER	RED
DKE09	GKE08, GKE09	PLAY	GREEN
DKE07	GKE06, GKE07	HIFI	GREEN

DESCRIPTION	DISPLAY	F.AV	WJ005	JLG05
KDB R7 AA4	LED(HIFI)	–	YES	YES
KDB R7 AA8	LED+(HIFI)	–	YES	YES

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

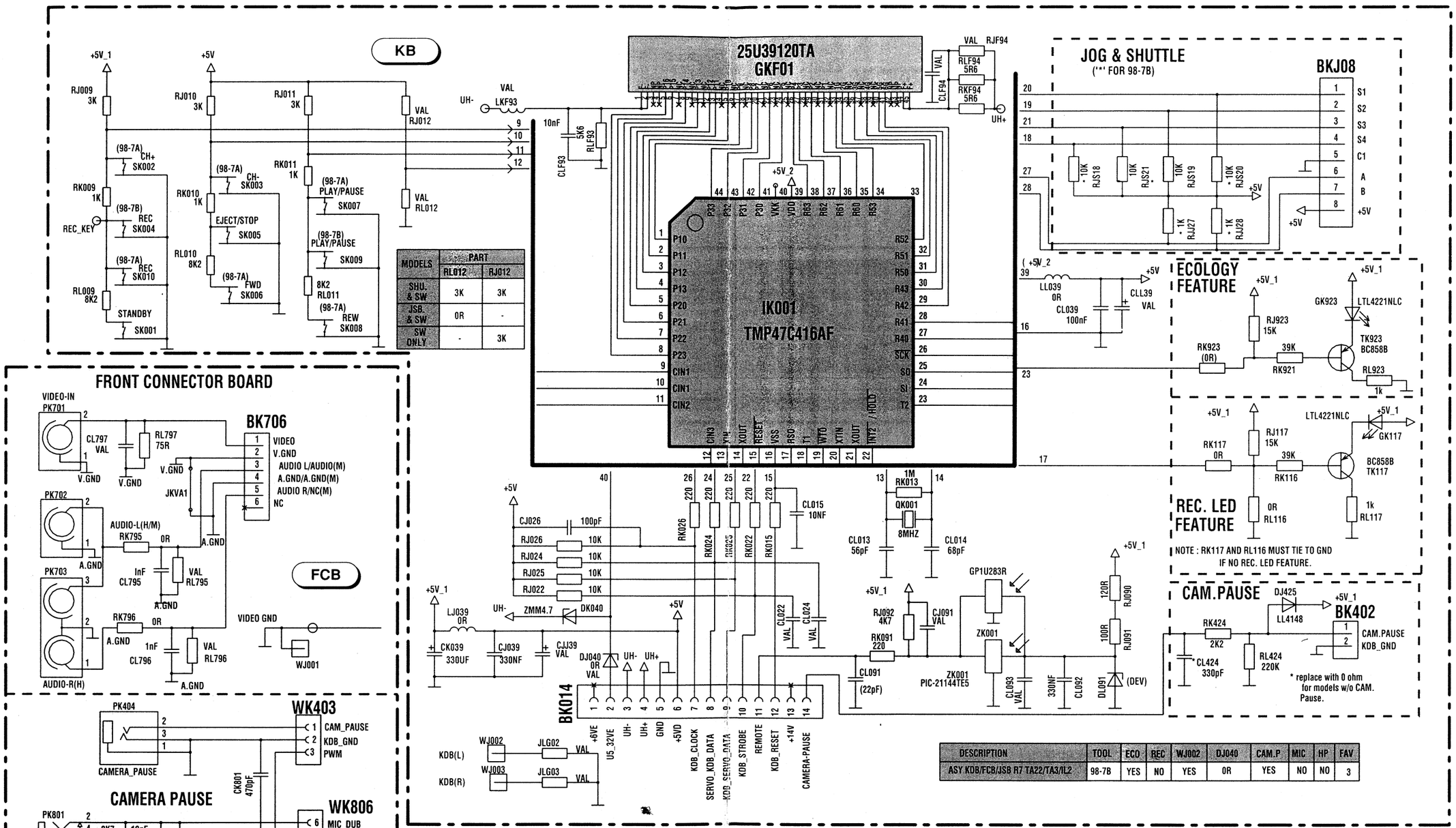




Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

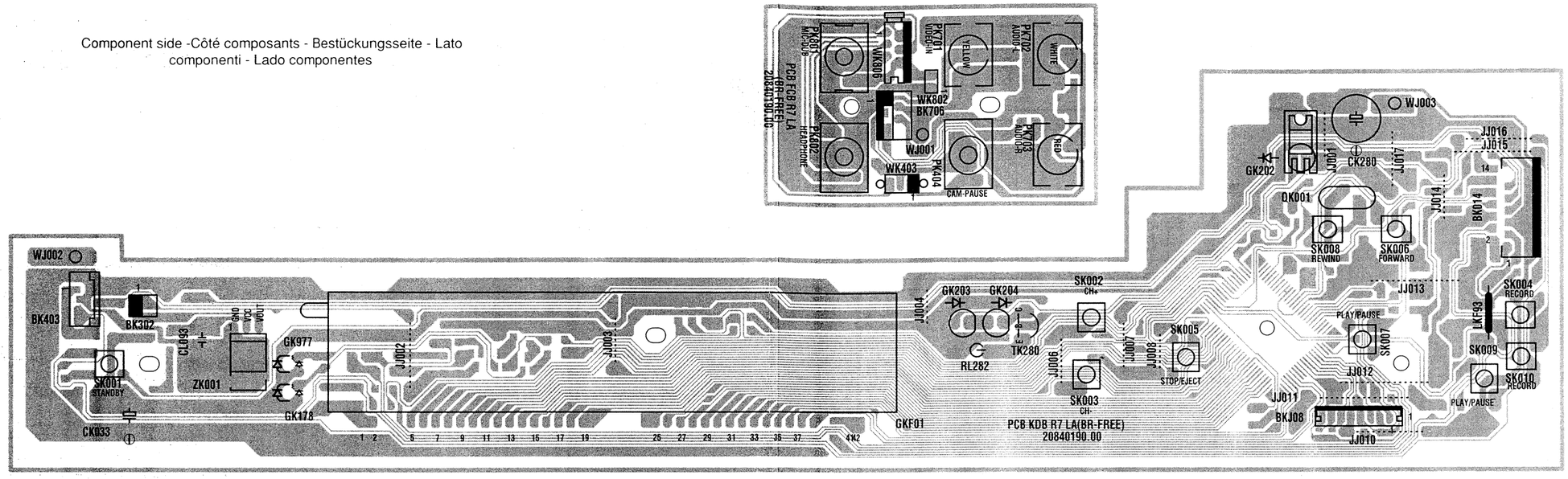
KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

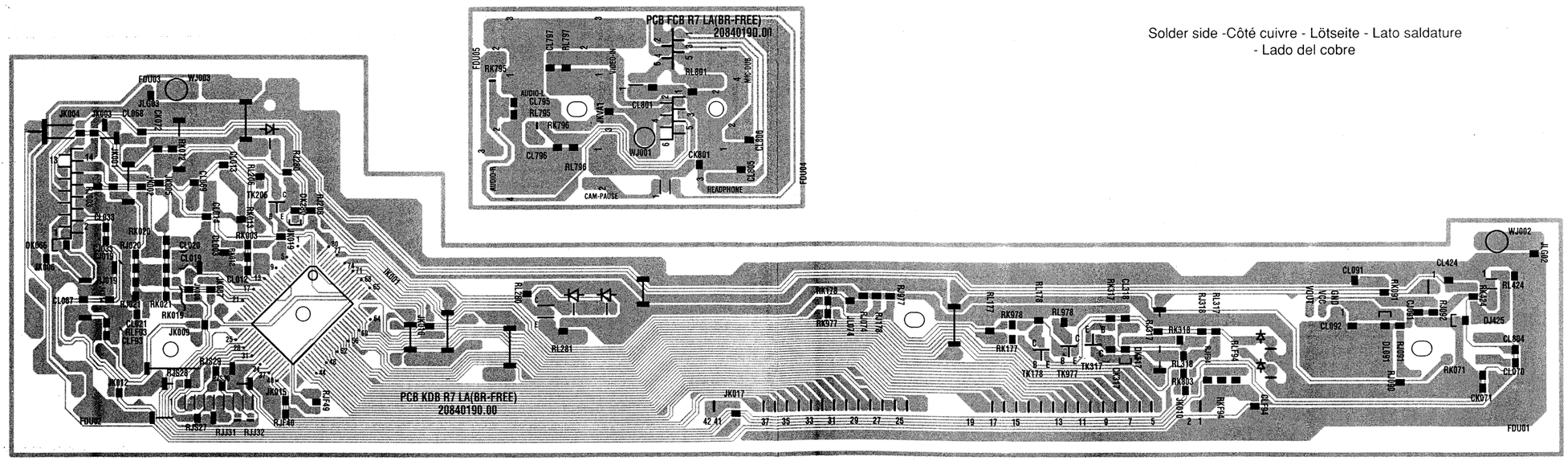


DESCRIPTION	TOOL	ECO	REC	WJ002	DJ040	CAM.P	MIC	HP	FAV
ASY KDB/FCB/JS8 R7 TA22/TA3/IL2	98-7B	YES	NO	YES	0R	YES	NO	NO	3

Component side -Côté composants - Bestückungsseite - Lato componenti - Lato componentes

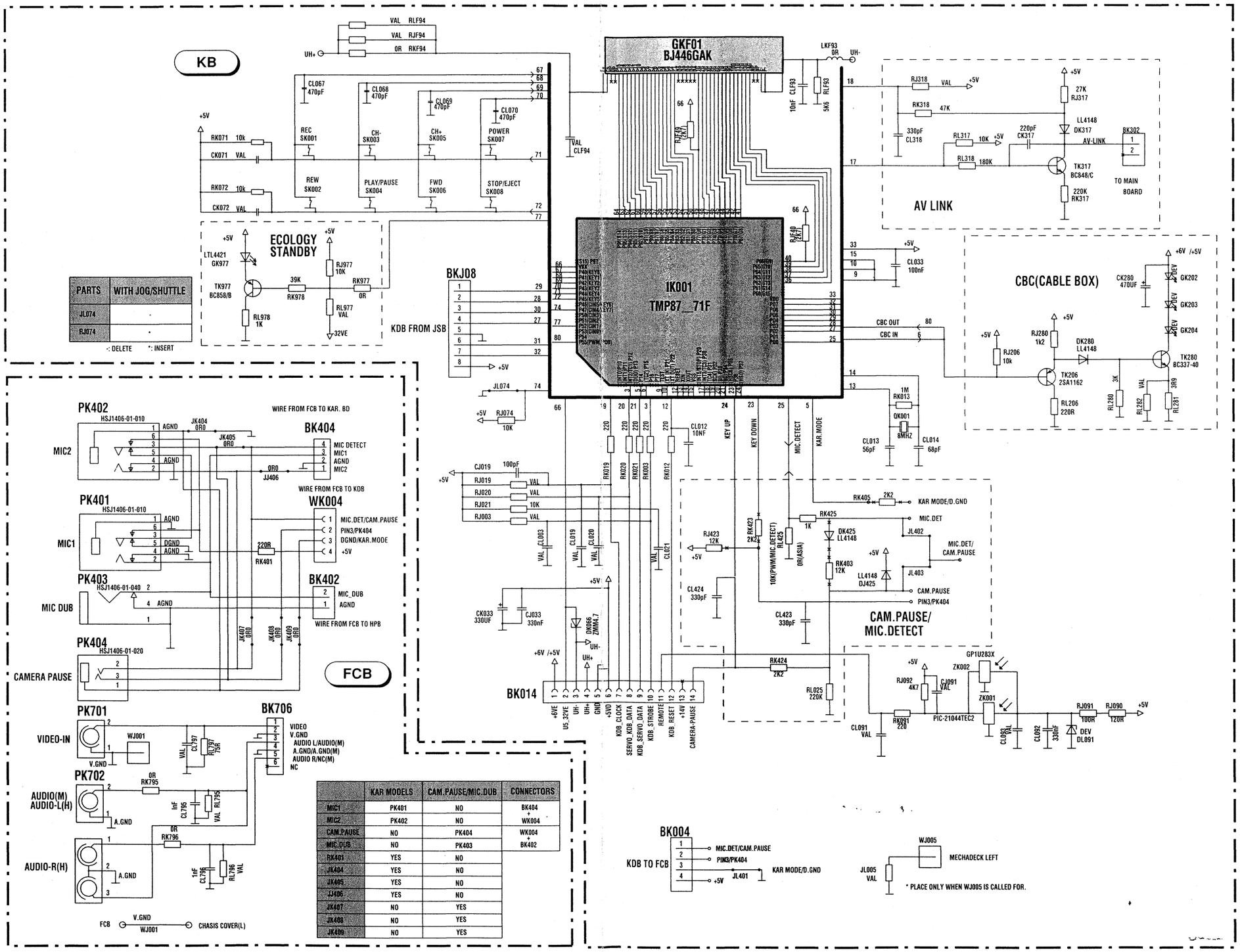


Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre



KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR

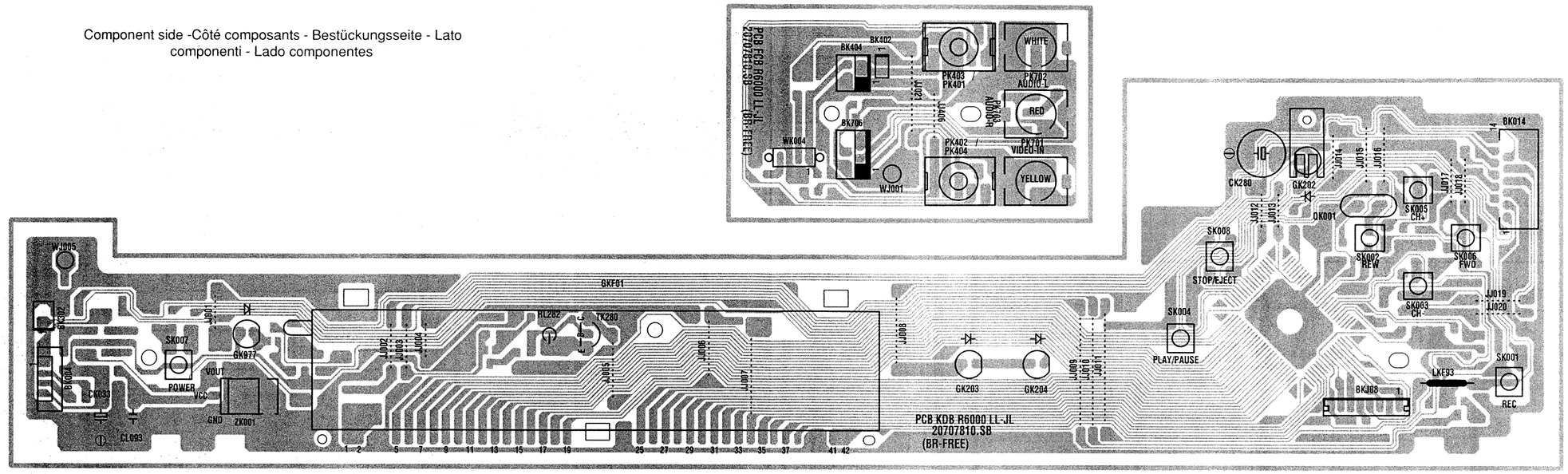
SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

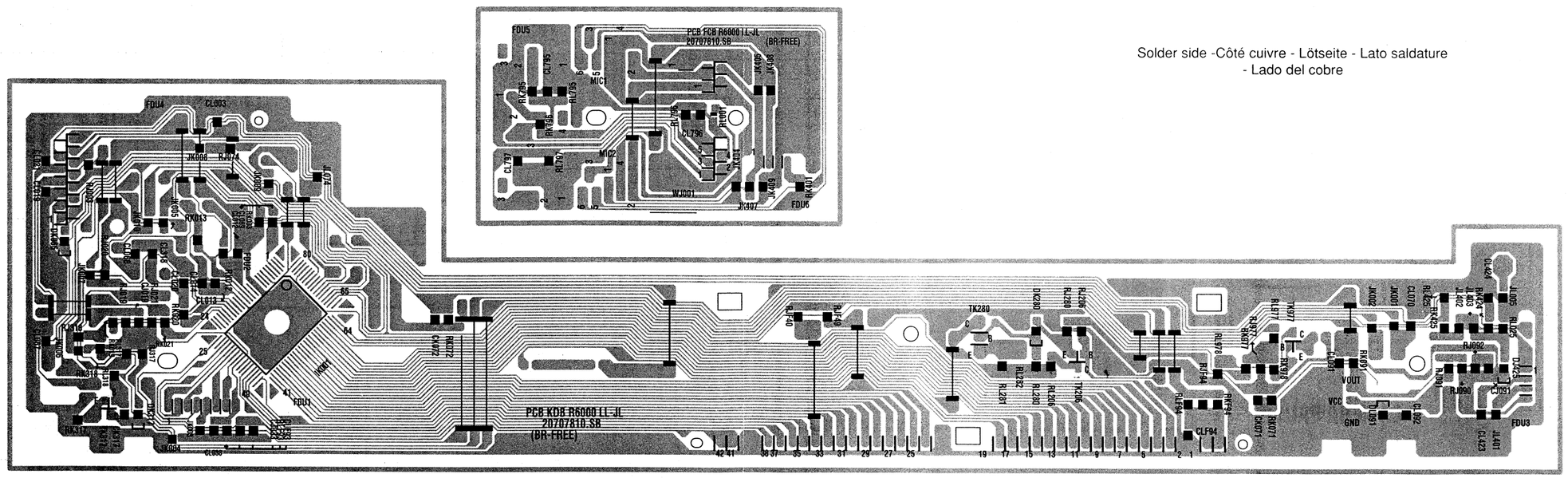


	KAR MODELS	CAM.PAUSE/MIC.DUB	CONNECTORS
MIC1	PK401	NO	BK404 + WK004
MIC2	PK402	NO	
CAM.PAUSE	NO	PK404	WK004 + BK402
MIC.DUB	NO	PK403	
RK401	YES	NO	
JK404	YES	NO	
JK405	YES	NO	
JJ406	YES	NO	
JK407	NO	YES	
JK408	NO	YES	
JK409	NO	YES	

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

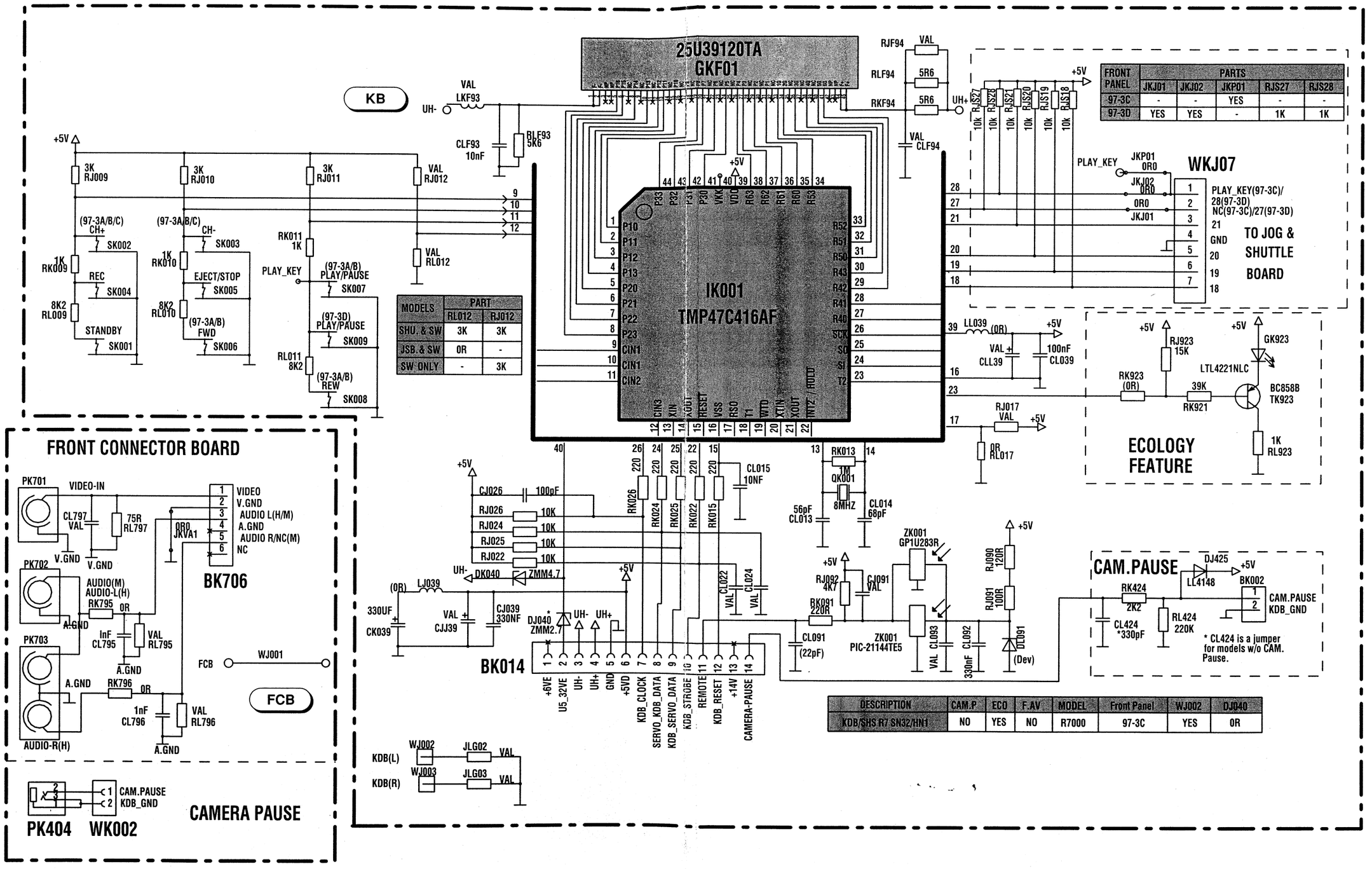




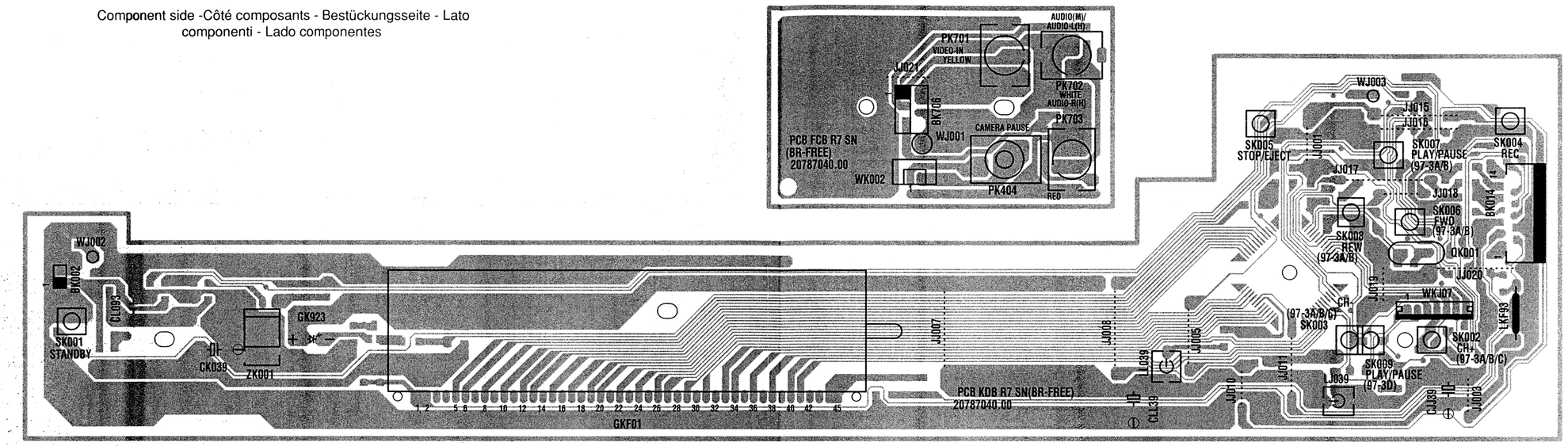
Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR

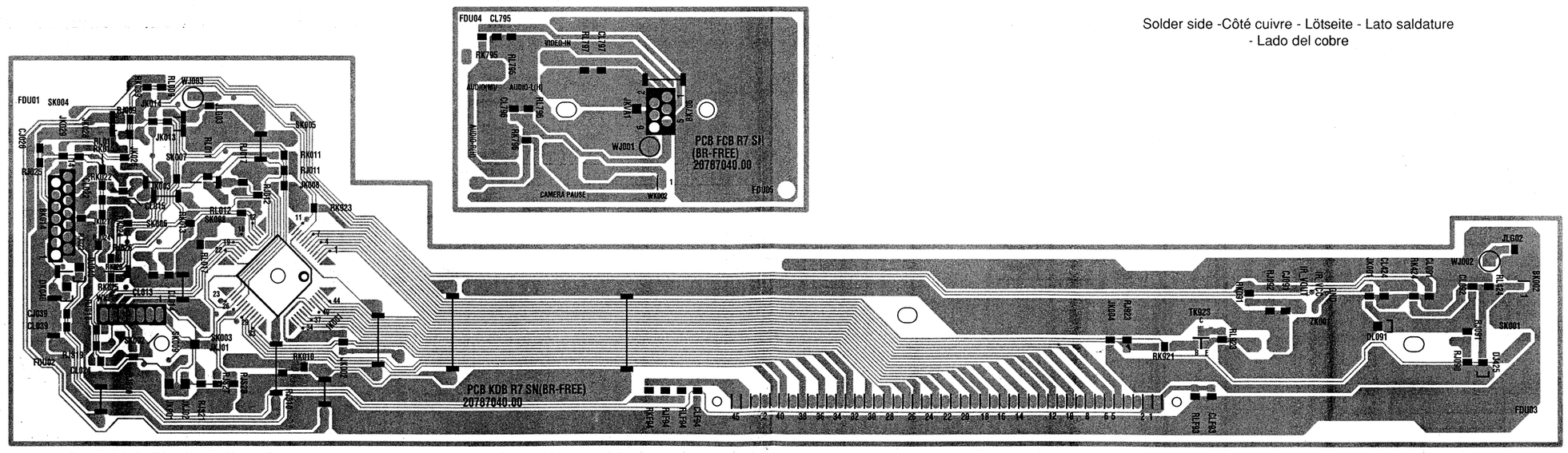
SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA



Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes



Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


FDU04 CL795
PCB FCB R7 SN
(BR-FREE)
20787040.00
WJ001
WK002
FDU05
PCB KDB R7 SN(BR-FREE)
20787040.00
FDU01
FDU02
FDU03
SK004
SK005
SK007
SK003
WJ003
WJ002
JLG02
TK923
RK921
RK923
RK011
RK010
RK012
RK008
RK009
RK006
RK005
RK003
RK002
RK001
RK925
RK926
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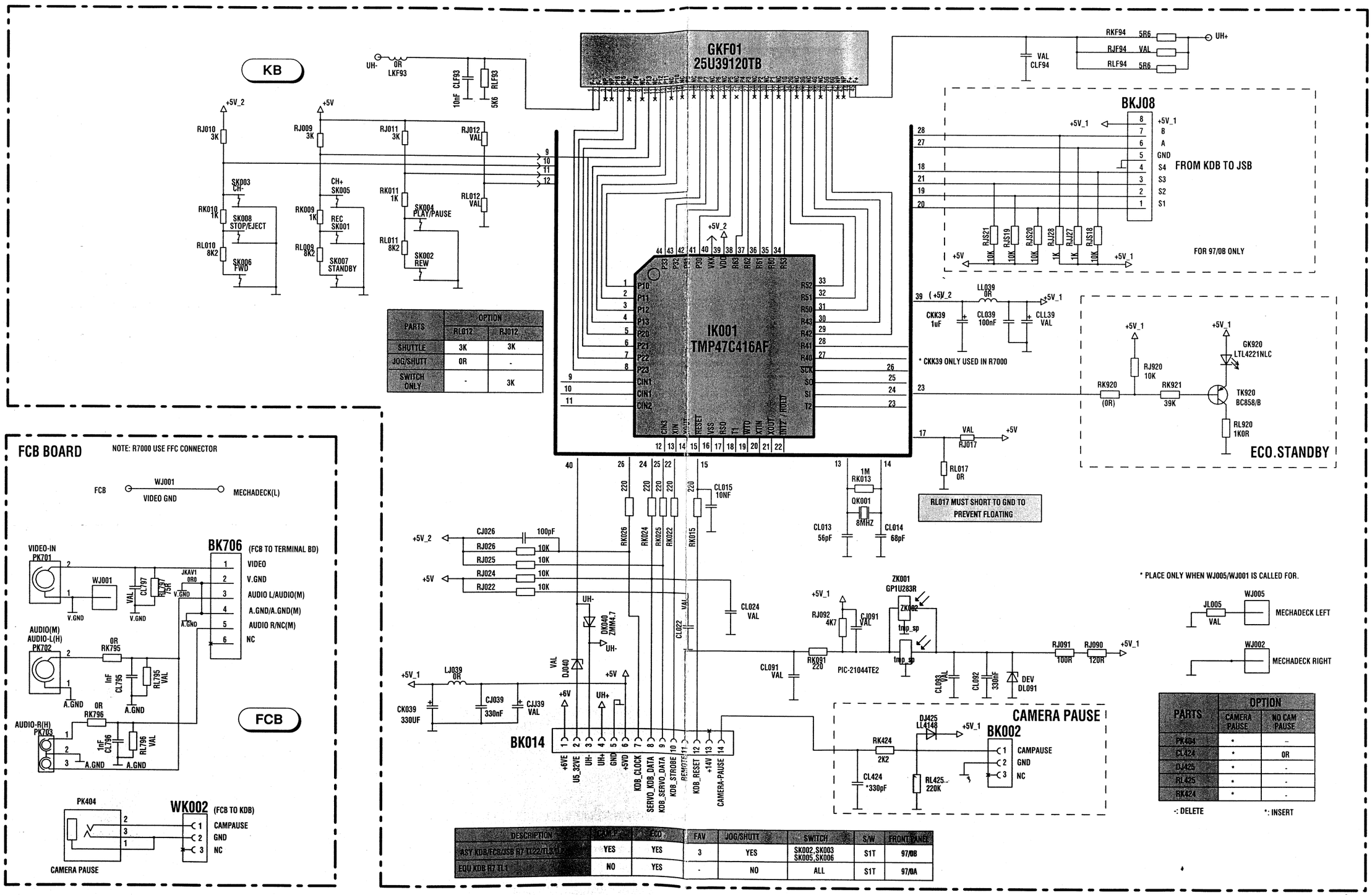
RK915
RK916
RK917
RK918
RK919
RK920
RK921
RK922
RK923
RK924

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR

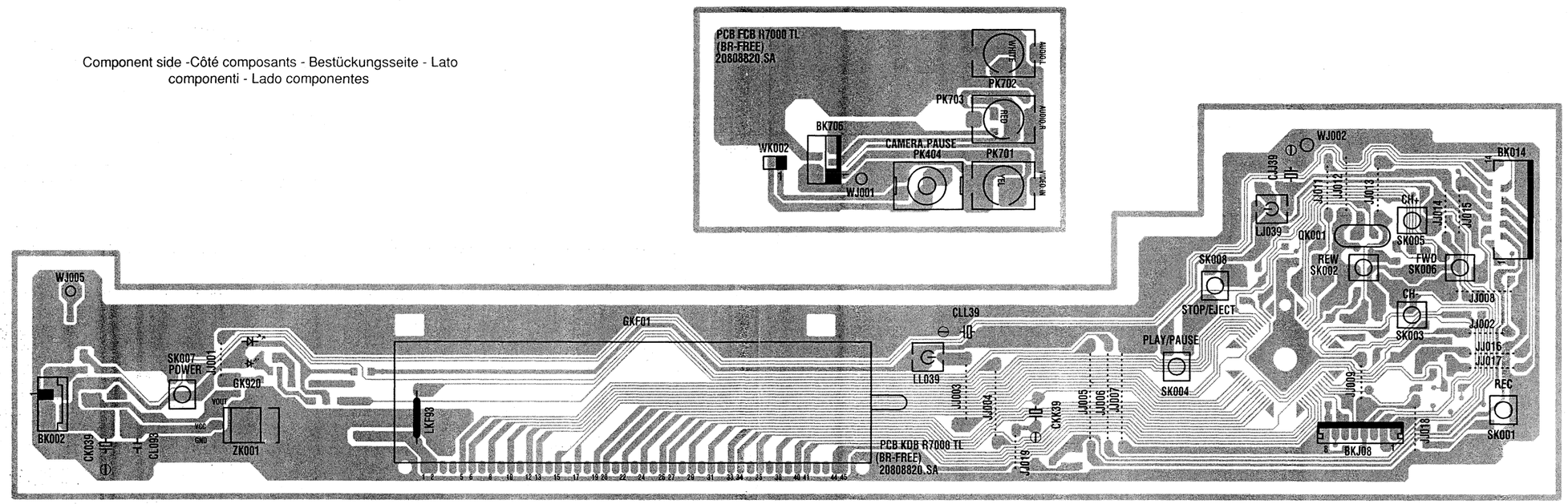
SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA



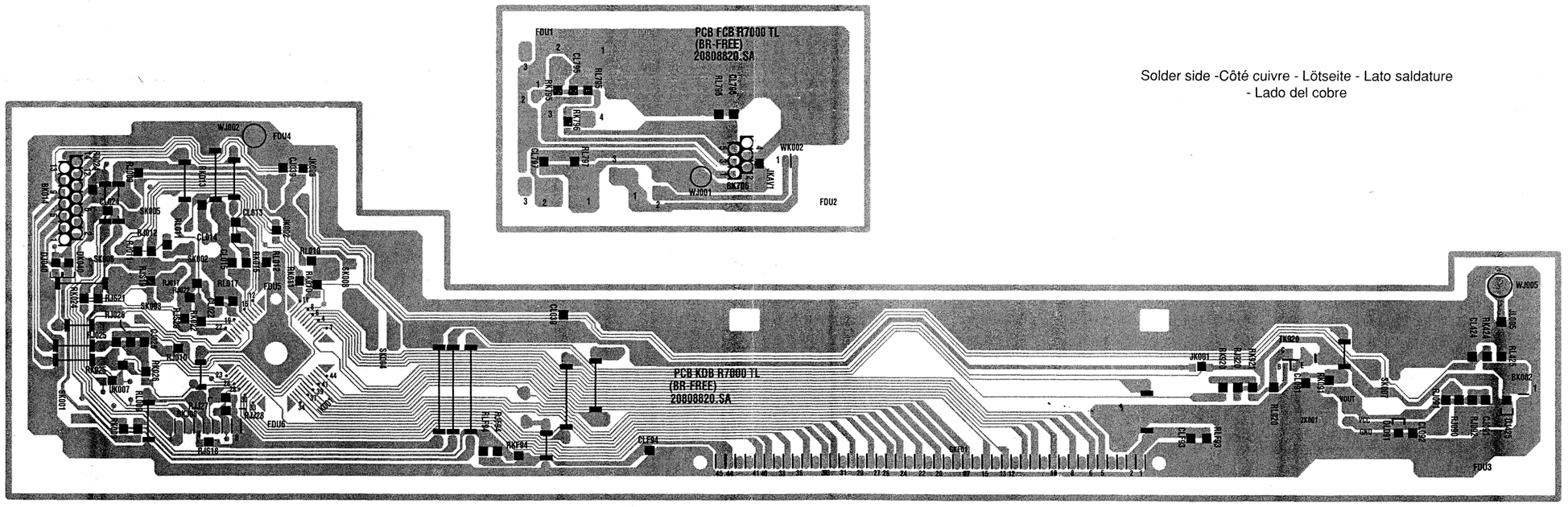
FCB BOARD

NOTE: R7000 USE FFC CONNECTOR

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

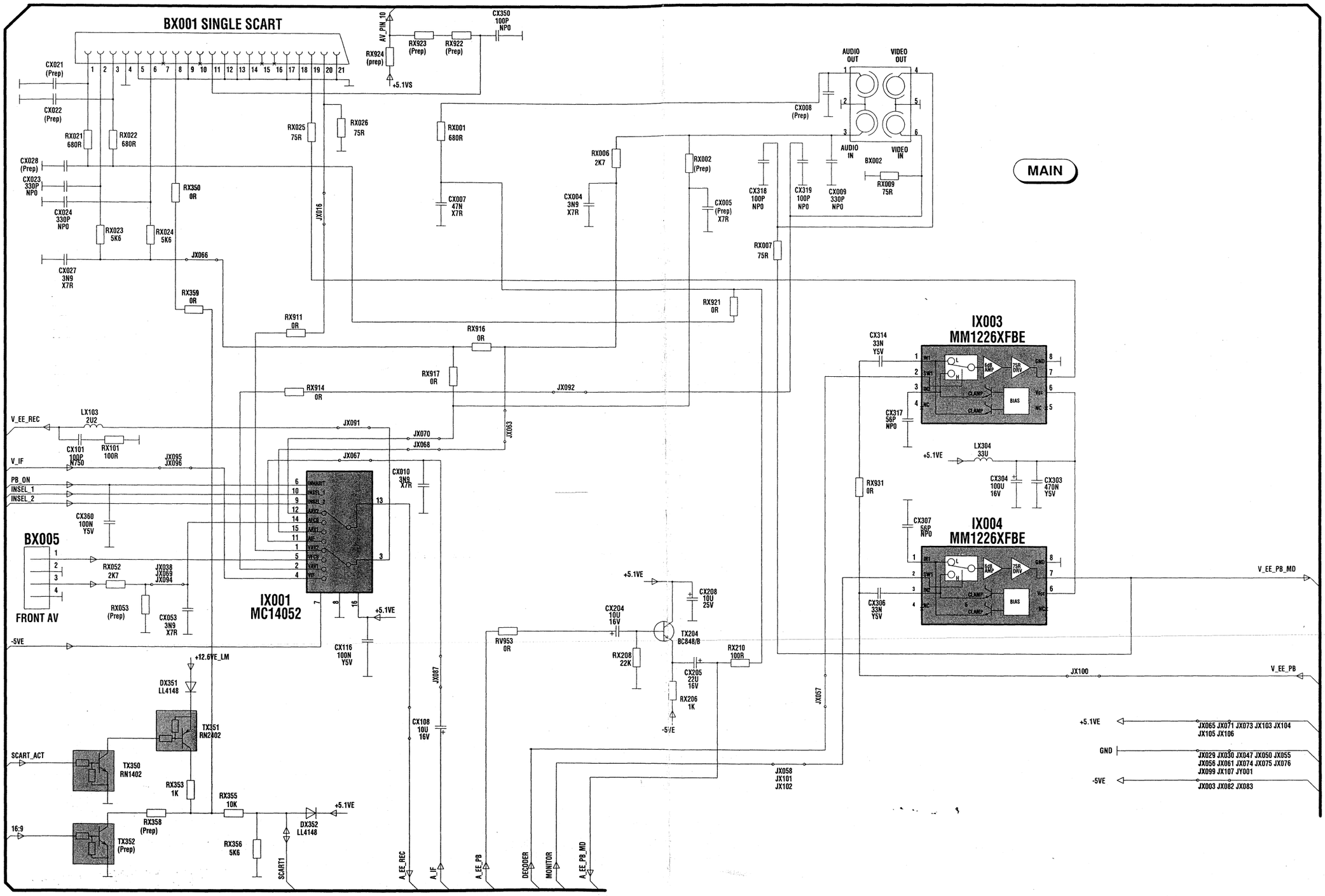


Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre



I/O INTERFACE - INTERFACE ENTREE / SORTIE - EINGANGS UND AUSGANGSINTERFACE - INTERFACCIA INGRESSO / USCITA - INTERFACE ENTRADA / SALIDA

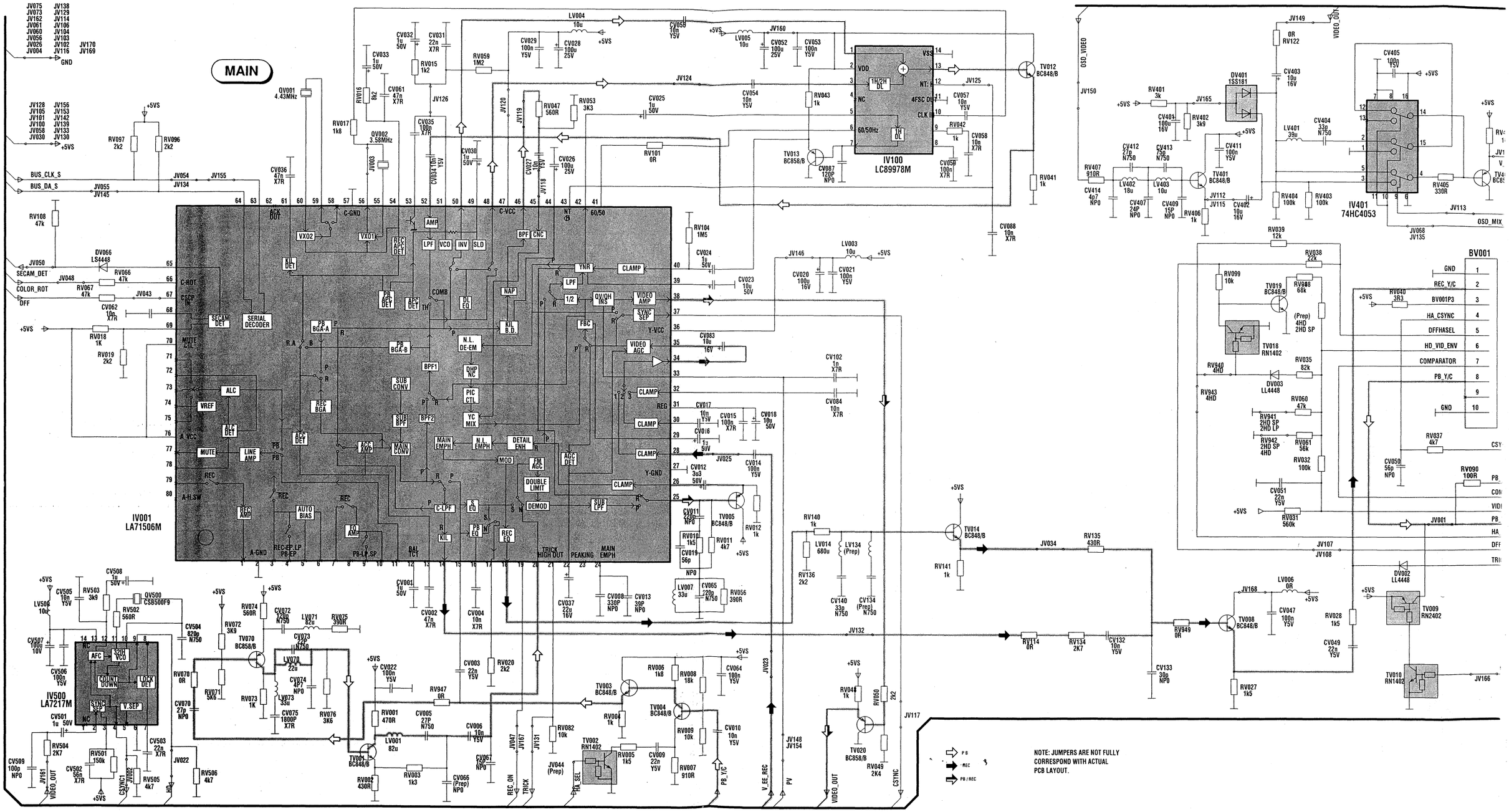
SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

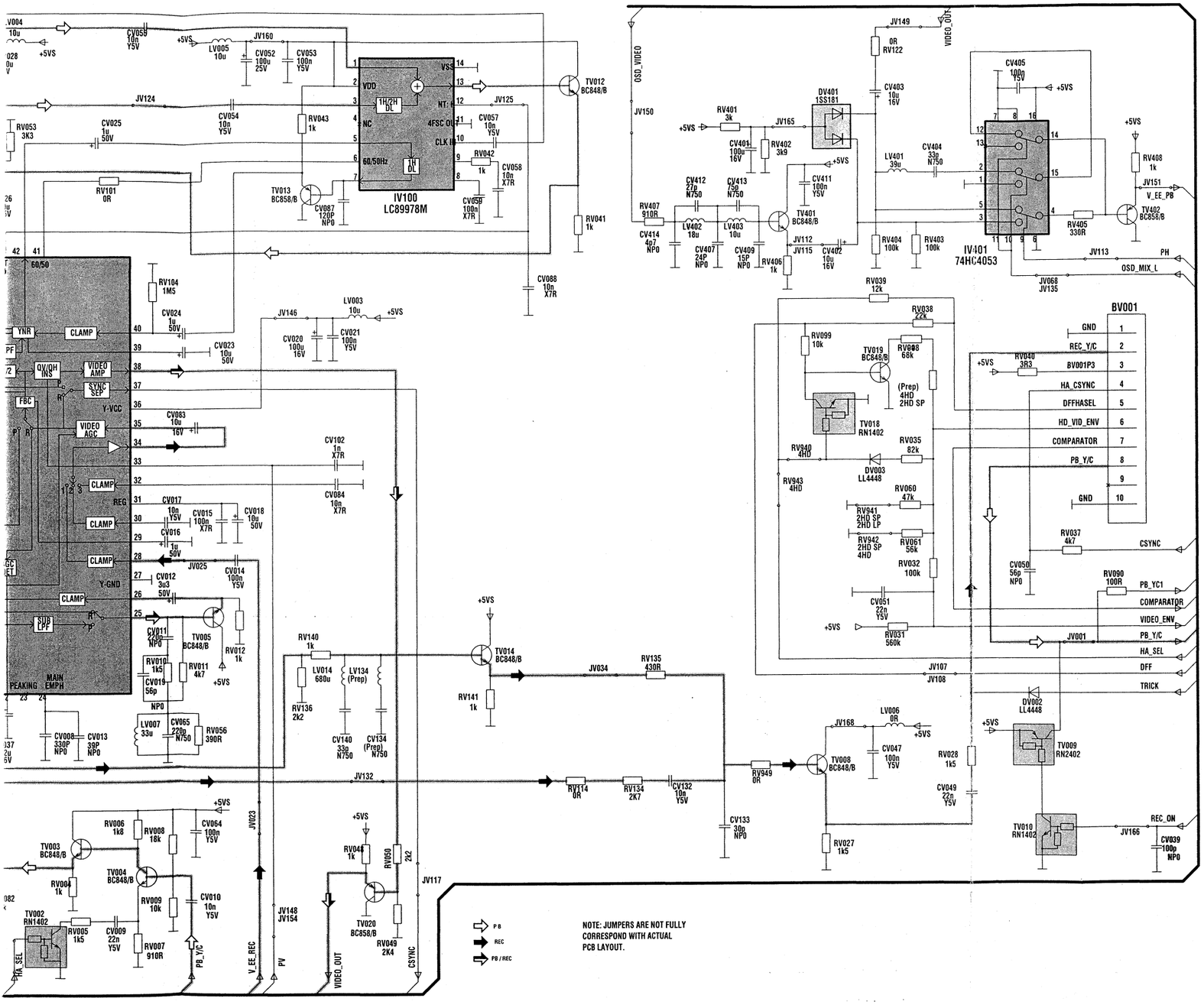


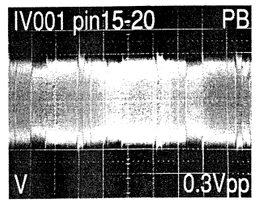
NOTE: 1) JUMPERS ARE NOT FULLY CORRESPONDED WITH ACTUAL PCB LAYOUT.
2) BX005 USE IN MODEL WITH FRONT CONNECTOR BOARD ONLY.

VIDEO SIGNAL PROCESSING - TRAITEMENT LUMINANCE / CHROMINANCE - VIDEOSIGNALVERARBEITUNG - ELABORAZIONE VIDEO - TRATAMIENTO VIDEO

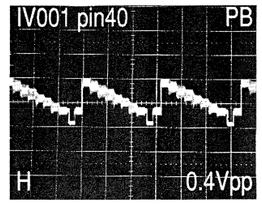
SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA



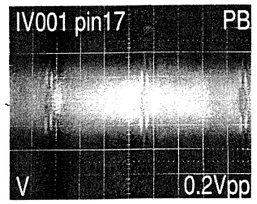




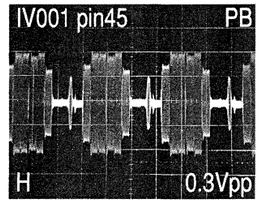
1



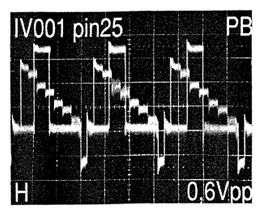
6



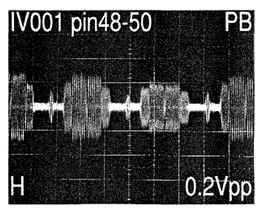
2



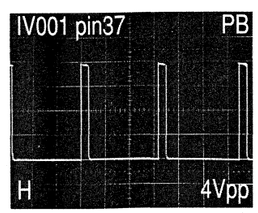
7



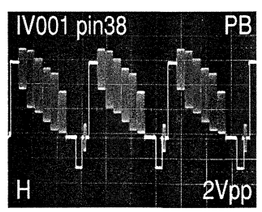
3



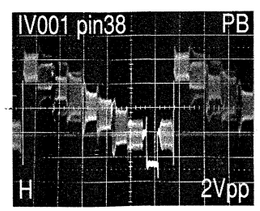
8



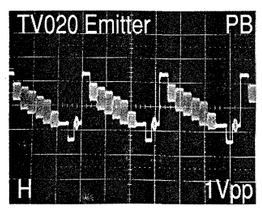
4



9



5



10

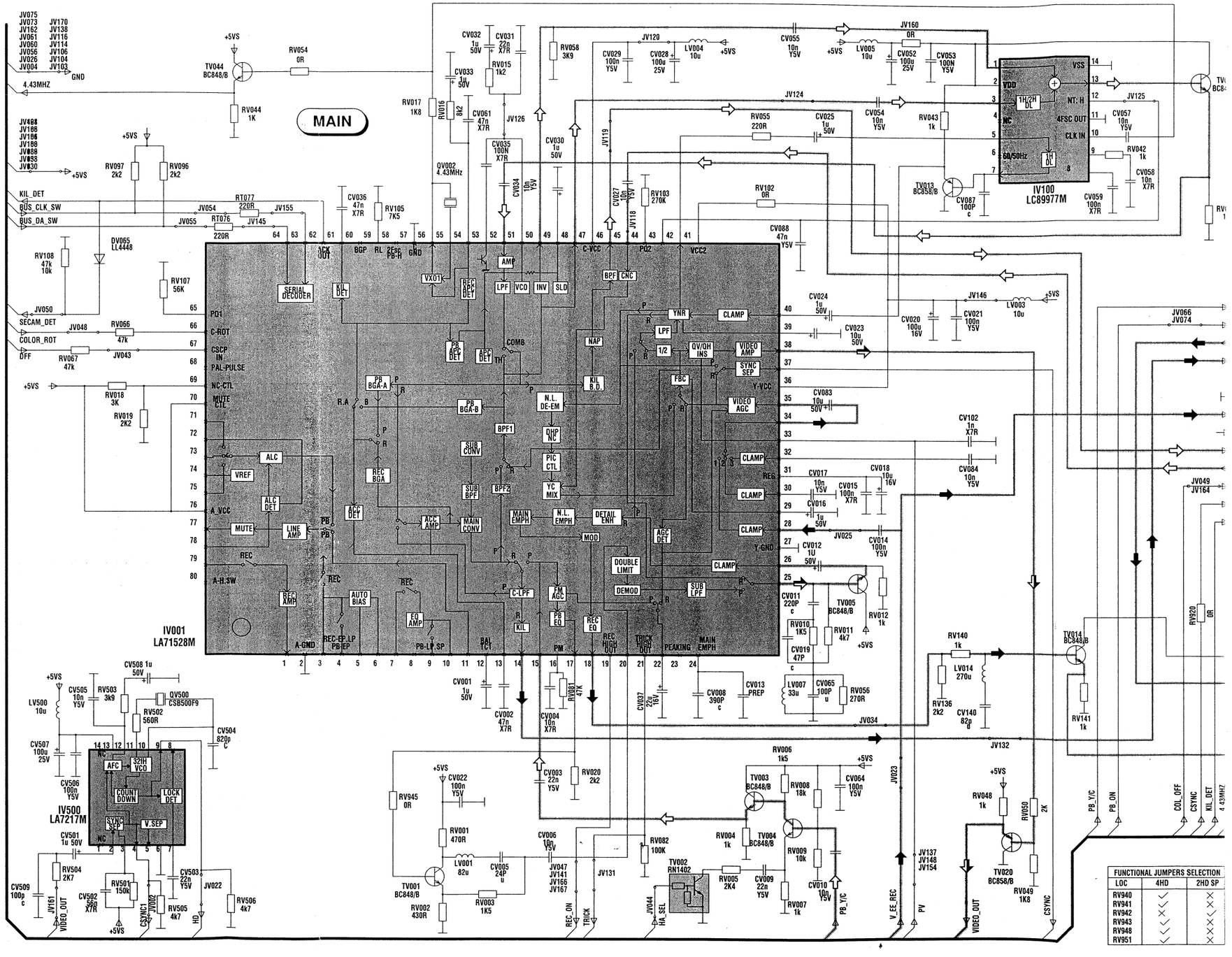
VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
DV401	1	2.8	2.8	2.7
	2	2.5	2.5	2.5
	3	2.8	2.6	2.8
IV001	1	NC	NC	NC
	2	0	0	0
	3	NC	NC	NC
	4	NC	NC	NC
	5	NC	NC	NC
	6	NC	NC	NC
	7	NC	NC	NC
	8	NC	NC	NC
	9	NC	NC	NC
	10	NC	NC	NC
	11	NC	NC	NC
	12	2.3	2.3	2.3
	13	2.1	1.9	2.1
	14	2.7	0	2.7
	15	0.3	3.2	0
	16	2.7	2.8	2.7
	17	2.7	1.4	2.7
	18	2.2	1.6	2.1
	19	0	0	4.1
	20	3.1	3.1	3.1
	21	0	4.1	0
	22	1.6	1.9	1.6
	23	0	1.6	0
	24	2.5	1.9	2.5
	25	2.2	2.2	2.2
	26	3.1	3.1	3.1
	27	0	0	0
	28	2.3	0.3	2.3
	29	2.2	2.2	2.3
	30	1.8	0.3	1.8
	31	4.1	4.1	4.1
	32	1.8	0.3	1.8
	33	0	0.2	0.2
	34	2.3	2.1	2.3
	35	3.1	3.1	3.1
	36	5	4.9	5
	37	0.6	0.6	0.6
	38	1.9	1.8	1.9
	39	3.3	3.3	3.2
	40	3.1	3	3.1
	41	NC	NC	NC
	42	2	1.9	2
	43	0.4	0.4	0.4
	44	1.8	1.8	1.8
	45	1.9	1.9	1.9
	46	0	2.6	0
	47	5	5	5
	48	2.8	2.8	2.8
	49	4.2	4.2	4.2
	50	2.9	2.8	2.8
	51	4.2	4.2	4.2
	52	3.2	3.2	3.2
	53	0.6	0.5	0.5
	54	2.2	2.2	2.2
	55	5	5	5
	56	5	5	5
	57	0	0	0
	58	NC	NC	NC
	59	2.3	2.3	2.3
	60	3.9	3.9	3.9
	61	1.9	1.9	1.9
	62	0	0	0

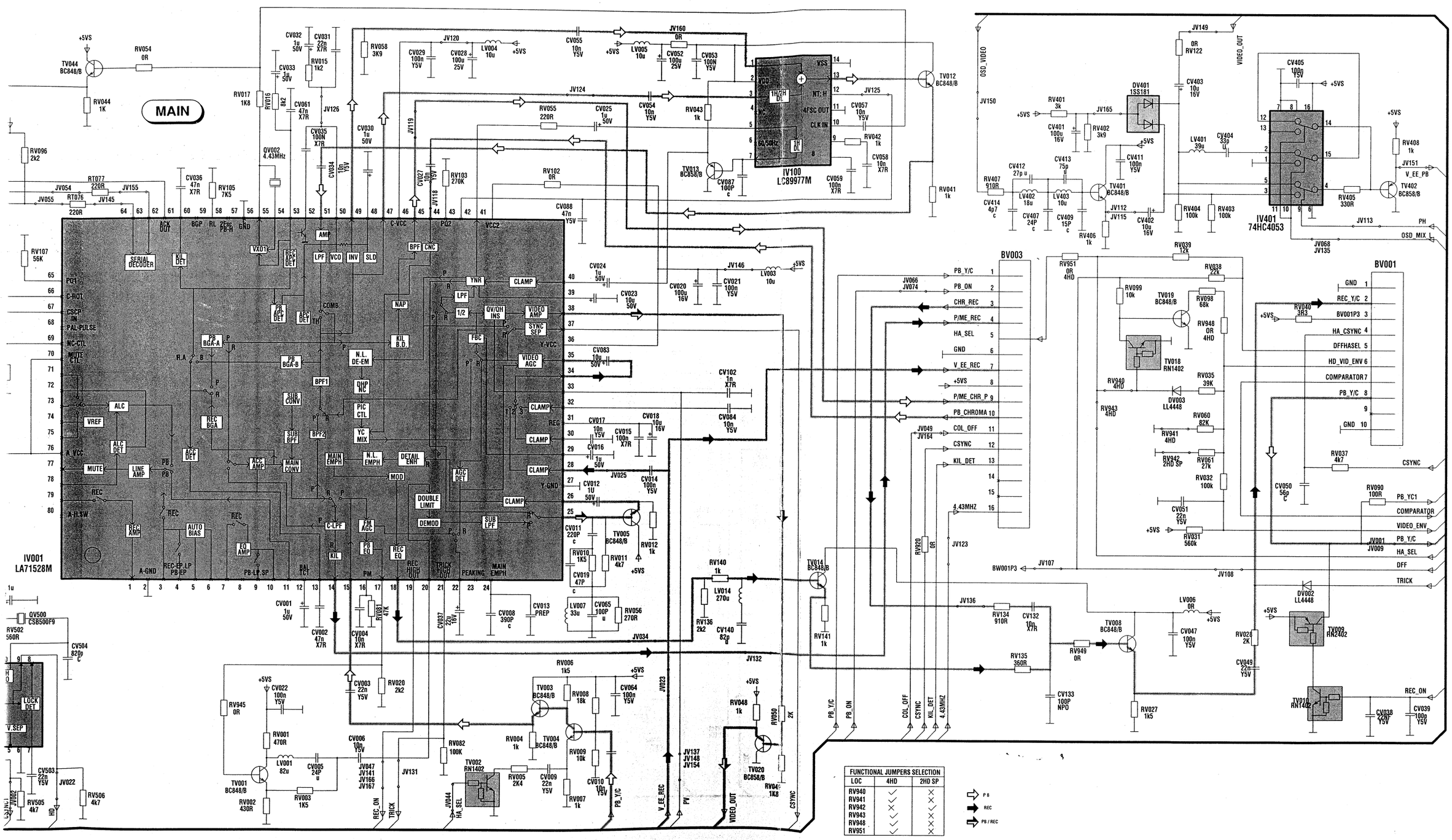
VIDEO SIGNAL PROCESSING - TRAITEMENT LUMINANCE / CHROMINANCE - VIDEOSIGNALVERARBEITUNG - ELABORAZIONE VIDEO - TRATAMIENTO VIDEO

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

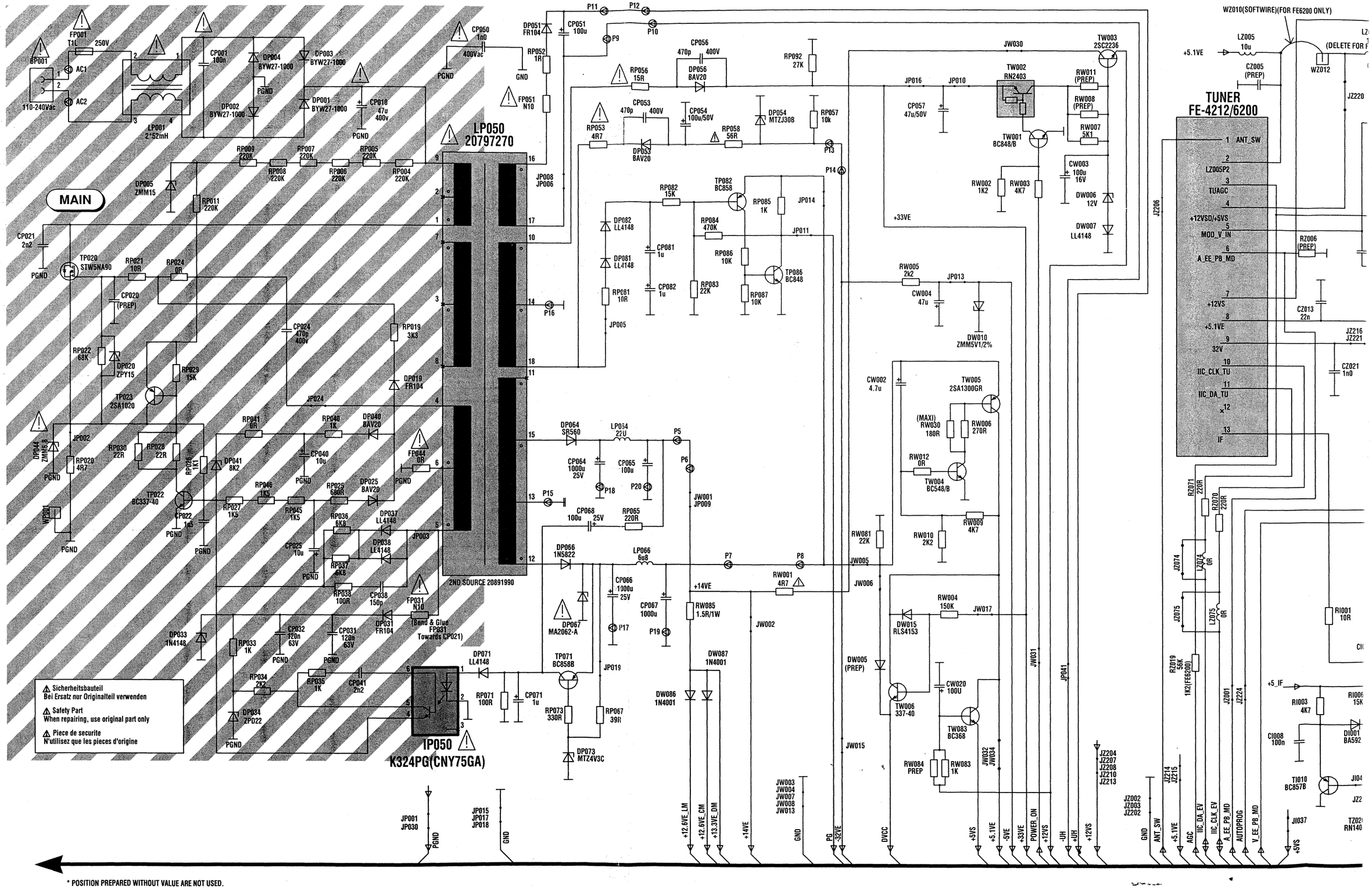
VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
	63	4.8	4.8	4.8
	64	4.8	4.8	4.8
	65	0.3	0.3	0.3
	66	0.3	0.3	0.3
	67	0	0	0
	68	0.8	0.8	0.8
	69	3.5	3.4	3.4
	70	5	5	5
	71	NC	NC	NC
	72	NC	NC	NC
	73	NC	NC	NC
	74	NC	NC	NC
	75	NC	NC	NC
	76	5	5	5
	77	NC	NC	NC
	78	NC	NC	NC
	79	NC	NC	NC
	80	NC	NC	NC
IV100	1	2.5	2.5	2.5
	2	5	5	5
	3	2.5	2.5	2.5
	4	NC	NC	NC
	5	2.3	2.3	2.3
	6	NC	NC	NC
	7	1.5	1.5	1.5
	8	8.9	8.9	8.9
	9	2.2	2.2	2.2
	10	0.9	0.9	0.9
	11	0	0	0
	12	0.4	0.4	0.4
	13	1.9	1.9	1.9
	14	0	0	0
IV401	1	0	0	0
	2	0.4	0.4	0.4
	3	2.5	2.5	2.5
	4	2.8	2.7	2.8
	5	2.8	3.1	2.8
	6	0	0	0
	7	0	0	0
	8	0	0	0
	9	0	0	0
	10	5.1	5.1	5.1
	11	5.1	5.1	5.1
	12	0	0	0
	13	NC	NC	NC
	14	2.8	2.6	2.8
	15	0	0	0
	16	5	5	5
IV500	1	NC	NC	NC
	2	2.4	2.4	2.4
	3	3.3	3.4	3.3
	4	3.8	3.8	3.8
	5	NC	NC	NC
	6	0	0	0
	7	4.9	4.9	4.9
	8	NC	NC	NC
	9	3.9	3.9	3.8
	10	4	4	4
	11	2.7	2.7	2.7
	12	2.2	2.2	2.2
	13	5	5	5
	14	NC	NC	NC

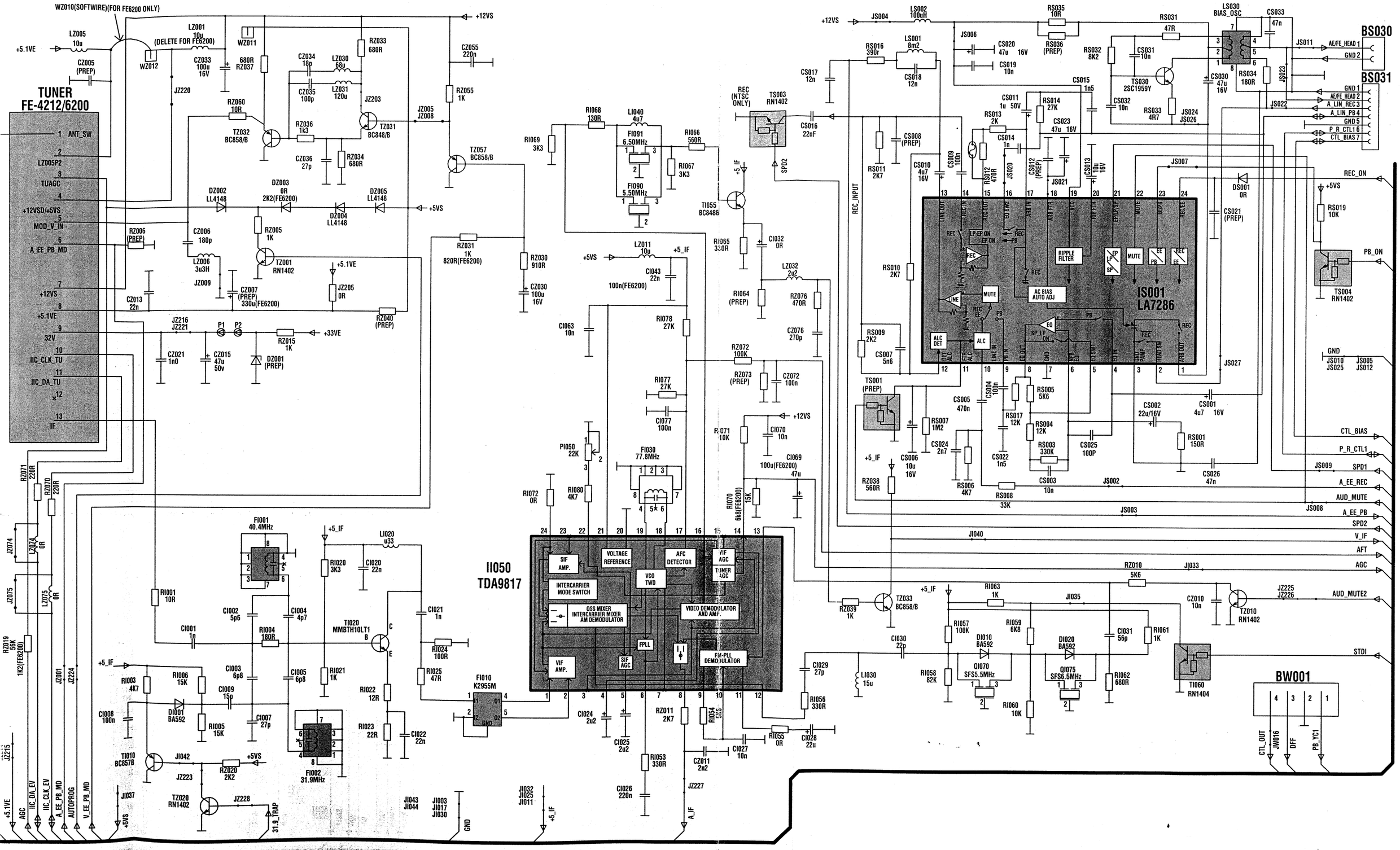
VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
TV001	E	1.2	1.2	1.2
	B	1.9	1.9	1.9
	C	3.7	3.7	3.7
TV002	E	0	0	0
	B	0	0	0
	C	0.3	0.3	0.3
TV003	E	2.7	2.6	2.6
	B	3.3	3.3	3.3
	C	5	5	5
TV004	E	1.1	1.1	1.1
	B	1.8	1.8	1.8
	C	3.3	3.3	3.3
TV005	E	1.5	1.5	1.5
	B	2.1	2.1	2.1
	C	5	5	5
TV008	E	0.9	0.4	0.9
	B	1.5	1	1.5
	C	5	5	5
TV009	E	5	5	5
	B	5	5	0
	C	1.9	1.8	5
TV010	E	0	0	0
	B	0	0	4.1
	C	5	5	0
TV012	E	1.3	1.3	1.3
	B	1.9	1.9	1.9
	C	5	5	5
TV013	E	2.1	2.1	2.1
	B	1.5	1.5	1.5
	C	0	0	0
TV014	E	1.5	1	1.5
	B	2.1	1.6	2.1
	C	5	5	5
TV020	E	1.6	1.5	1.6
	B	1	1	1
	C	0	0	0
TV044	E	1.6	1.6	1.6
	B	2.3	2.2	2.2
	C	5	5	5
TV070	E	3.6	3.6	3.6
	B	3	2.9	2.9
	C	1.9	1.9	1.9
TV401	E	1.4	1.4	1.4
	B	2	2	2
	C	5	5	5
TV402	E	3.4	3.3	3.4
	B	2.8	2.6	2.8
	C	0	0	0




MAIN
IV100
LC89977M
IV001
LA71528M
IV401
74HC4053
BV003
BV001
OSD_VIDEO
VIDEO_OUT
SERIAL DECODER
KIL DET
AMP
VXO1
LPF
VCO
INV
SLD
BPF
CNC
YNR
CLAMP
NAP
COMB
VIDEO AMP
SYNC SEP
VIDEO AGC
N.L. DE-EM
DHP NC
PIC CTL
YC MIX
SUB CONV
BPF1
BPF2
MAIN CONV
MAIN EMPH
N.L. EMPH
DETAIL ENH
AGC DET
ACC AMP
ACC DET
ALC
ALC DET
VREF
MUTE
LINE AMP
REC BGA
SUB BPF
REC AMP
AUTO BIAS
EQ AMP
PB EQ
REC EQ
FM AGC
C-LPF
DOUBLE LIMIT
DEMOD
SUB LPF
MOD
PB BGA-A
PB BGA-B
FBC
QV/OH INS
KIL B.D.
PB ACC DET
ACC DET
TH
REC
PB
A-H.SW
A-GND
REC-EP.LP
PB-EP
PB-LP.SP
BAL TCT
PM
PEAKING
MAIN EMPH
TRICK REC OUT
REC HIGH OUT
C-VCC
Y-VCC
Y-GND
VCC2
PO2
QV002 4.43MHz
QV500 CSB500F9
LOCK DET
V.SEP
PB_Y/C
PB_ON
CHR_REC
P/ME_REC
HA_SEL
V_EE_REC
P/ME_CHR_P
PB_CHROMA
COL_OFF
CSYNC
KIL_DET
4.43MHZ
REC_ON
TRICK
DFF
PH
OSD_MIX
HD_VID_ENV
COMPARATOR
VIDEO_ENV
DFFHASEL
REC_Y/C
BV001P3
BW001P3
FUNCTIONAL JUMPERS SELECTION
LOC | 4HD | 2HD SP
RV940 | ✓ | ×
RV941 | ✓ | ×
RV942 | × | ✓
RV943 | ✓ | ×
RV948 | × | ×
RV951 | ✓ | ×
PB
REC
PB / REC

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

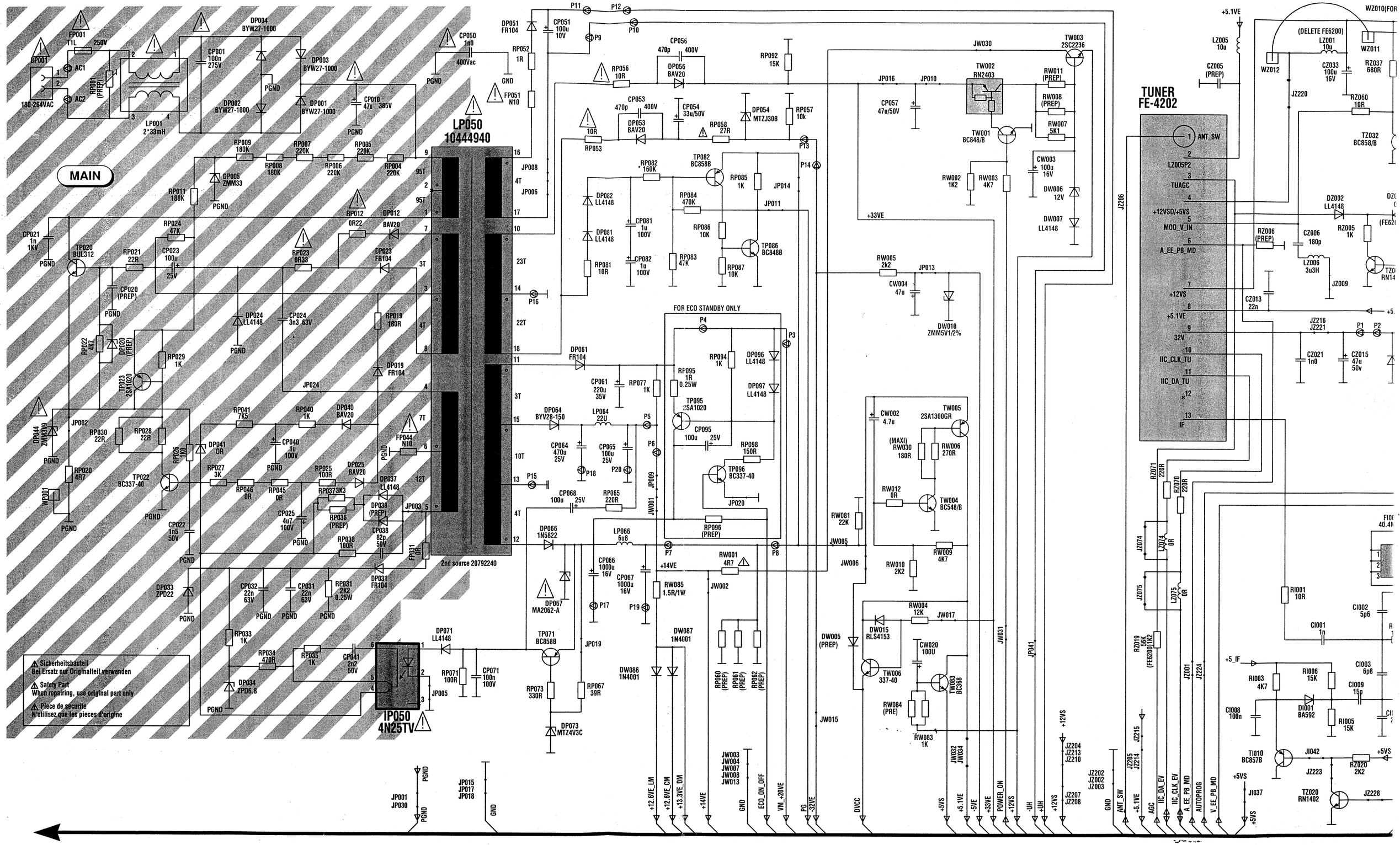




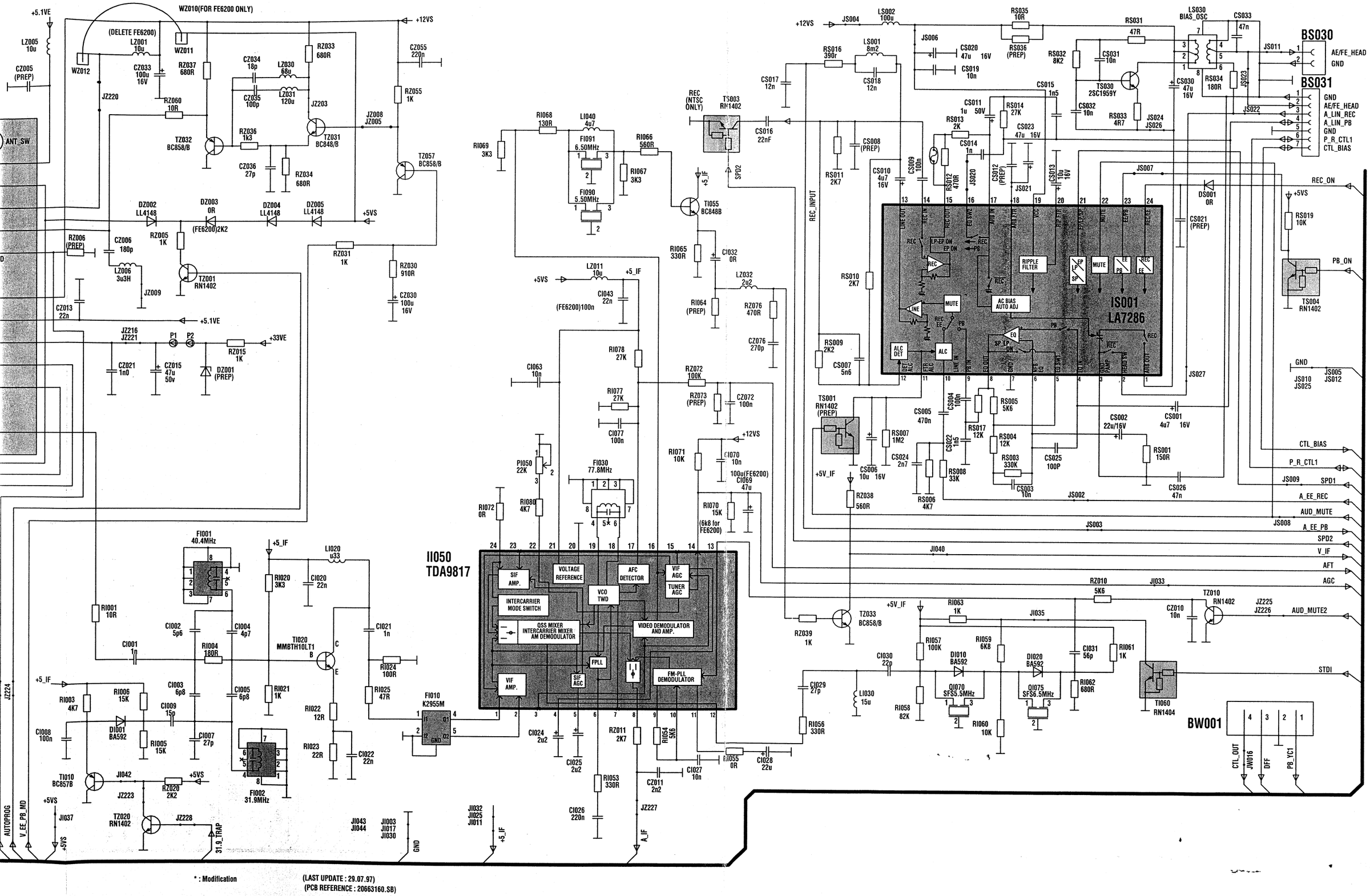
(LAST UPDATE: 06.02.98)
(PCB REFERENCE: 20663160.SC)

POWER SUPPLY INTERFACE / TUNER / IF SECTION - INTERFACE ALIMENTATION / TUNER / FI - NETZ-EIL / TUNER / ZF - ALIMENTAZIONE / TUNER / IF - INTERFAZ ALIMENTA

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA



* POSITION PREPARED WITHOUT VALUE ARE NOT USED.



* : Modification

(LAST UPDATE : 29.07.97)
(PCB REFERENCE : 20663160.SB)

Abbreviations - Abreviations - Abkürzungen - Abbreviazioni - Abreviaciones

AC	Alternating Current
ACC	Automatic Colour Control
ACK	Automatic Colour Killer
AD.REF	Analog/Digital Converter Reference
AE	Audio Erase
AFC	Automatic Frequency Control
AGC	Automatic Gain Control
A_IF	Audio IF
ALC	Automatic Level Control
AMP	Amplifier
APC	Automatic Phase Control
AP.CONT	Aperture Control
AV	Audio-Video
A/V SWP	Audio/Video Switching Point (DRUM FF)
B.EMPH	Burst Emphasis
B.DEEMPH	Burst Deemphasis
BG	Burst Gate
BID	Burst Identification
BLK	Blanking
BPF	Band Pass Filter
CAP	Capstan
CBC	Cable Box Control (Satellite Control)
CCD	Charge Coupled Device
CH	Channel
CFG	Capstan Frequency Generator
CLK	Clock
COMP	Comparator
CONV	Converter
CPWM	Capstan Pulse Width Modulation
C-REG	Capstan Regulation
CR	Color Rotary
CS	Chip Select
CSYNC	Composite Synch
CTL	Control
DC	Direct Current
D.LIM	Double Limitter
DEEMPH	Deemphasis
DET	Detector
D-FG	Drum Frequency Generator
DFF	Drum Flip Flop
DIF.EQ	Differential Equalizer
DIG	Digital
DLY	Delay
DOC	Drop Out Compensation
E-E	Electronic-Electronic
EMPH	Emphasis
ENV	Envelope
EP	Extended Play
EQ	Equalizer
F.E	Full Erase
F.REW	Fast Rewind
F.FWD	Fast Forward
F/R	Forward/Rewind
FCB	Front Connection Board
FF	Fast Forward
FG	Frequency Generator
FMCI	FM Carrier Interleave
FWD	Forward
GND	Ground
GCA	Gain Controlled Amplifier
HASEL	Head Amplifier Select
HAB	Head Amplifier Board
HD	Horizontal Synch Pulse
HPF	High Pass Filter
I.R	Infra Red
ID	Identification
INP/IN	Input
KDB	Key Display Board
LIM	Limitter
LP	Long Play
LPF	Low Pass Filter
MESECAM	Middle East Secam
NC	Noise Canceller
OSD	On Screen Display
PB	Play Back
PB_C	Play Back Chroma
PCB	Printed Circuit Board
PDC	Program Delivery Control
PG	Pulse Generator
PH	Pseudo Horizontal Synch
PIF	Picture IF
PLL	Phase Locked Loop
PS	Phase Switch
PV	Pseudo Vertical Synch
PWM	Pulse Width Modulation
REC	Record
REC_C	Record Chroma
REW	Rewind
REV	Reverse
SCL	Serial Clock
SDA	Serial Data
SEC	SECAM
SU REEL	Supply Reel
SMPS	Switch Mode Power Supply
SP	Standard Play
SS	Synch Separator
SW	Switch
TU REEL	Take Up Reel
TMB	Terminal Board
VAL	Components without value and not on the PCB
VCA	Voltage Controlled Amplifier
VCO	Voltage Controlled Oscillator
VCR	Video Cassette Recorder
VD	Supply Voltage Digital
VE	Voltage (Ever)
V_ENV	Video Envelope
V_IF	Video IF
VS	Voltage (Switched)
VM	Motor Voltage (Drum & Loading motor)
VMC	Motor Voltage (Capstan motor)
VPS	Video Program System
W/D	White/Dark
Y/C	Luminance/Chrominance

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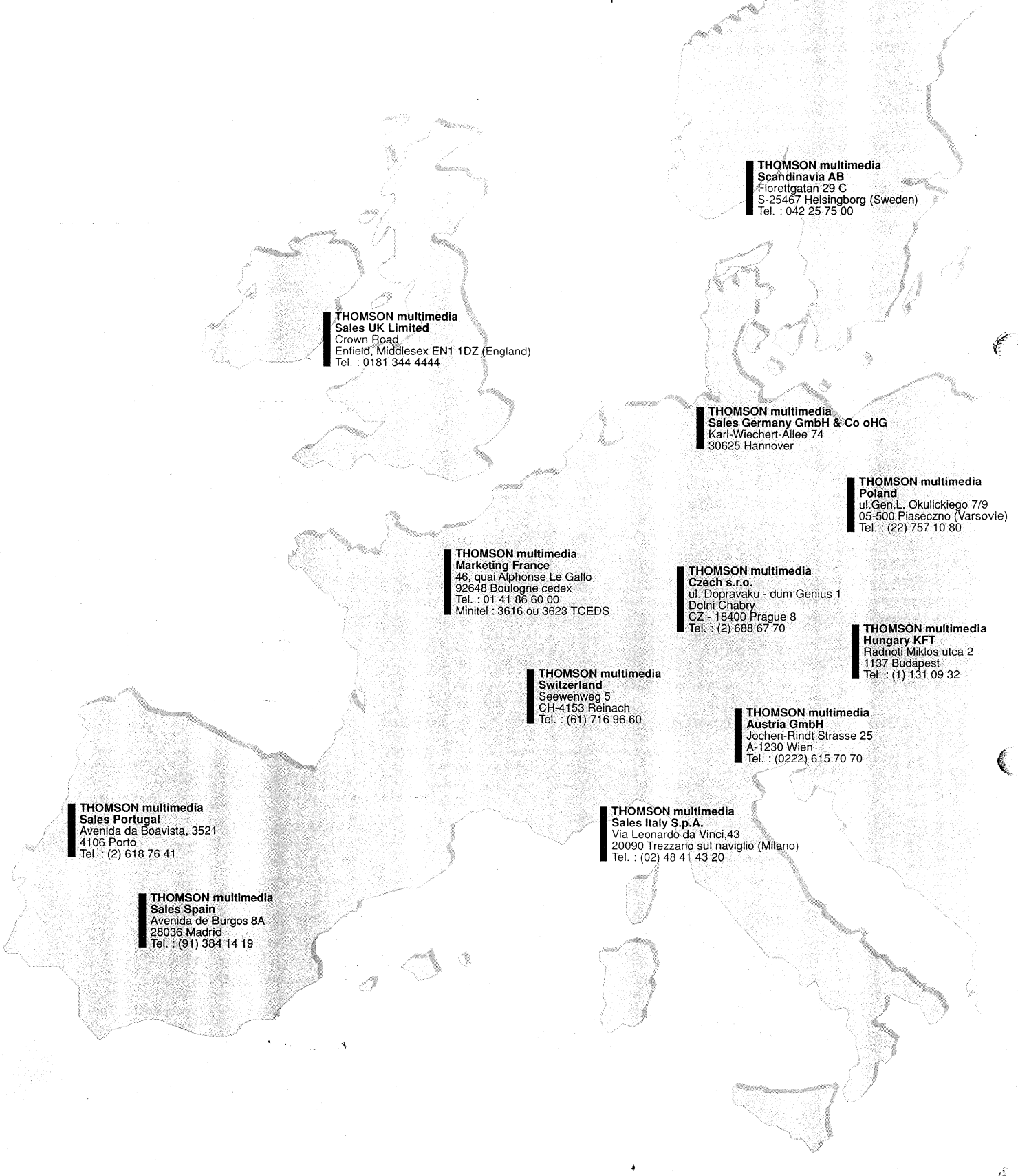

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